

Model: HIRD-E86

Platinum

HD



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DIRECTV® Programming—DIRECTV® service can only be received by U.S. residents and is not available outside the U.S. DIRECTV® programming is sold separately and independently of DIRECTV® System hardware. Due to copyright restrictions, you may not be able to view some high definition programs in high definition format using this product. A valid programming subscription is required to operate DIRECTV® System hardware. For subscription information, or to resolve problems related to programming, call the service provider, DIRECTV at 1-800-DIRECTV (347-3288).

Satellite System Hardware and Installation—To arrange for professional installation of your satellite system, ask questions, or to resolve problems, please contact your dealer. If additional information is needed, please contact Hughes Customer Care Center toll free at 1-800-274-8995.

Hughes Customer Care Center
1-800-274-8995
or e-mail us at hughestv@hns.com
Subscriptions and pay per view
1-800-DIRECTV

PLEASE MAKE NOTE OF THE FOLLOWING INFORMATION FOR WARRANTY

System Model #:
Receiver Model #: HIRD-E86
Receiver Serial #:
Access Card #:
LNB Serial #:

Important Safety Instructions

For your safety and protection, read this entire Owner's Manual before you attempt to install or use your satellite system. In particular, read this safety section carefully. Keep this safety information where you can refer to it, if necessary.

Heed Cautions—All cautions on the product and in the operating instructions should be adhered to.

Follow Instructions—All operating and use instructions should be followed.

THESE CAUTIONS AND SYMBOLS APPEAR ON THE BACK OF THE HD RECEIVER

WARNING or CAUTION



Double insulated systems are protected by additional board clearances and creepage, so that the unit will not be a safety hazard to the end-user.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN





THESE ARE DEFINITIONS FOR ALERTS USED IN THIS MANUAL

WARNING or CAUTION



Where you see this alert symbol and the WARNING or CAUTION heading, strictly follow the warning instructions to avoid personal injury.

A

DANGER

Electric shock hazard: Where you see this symbol and the DANGER heading, strictly follow the warning instructions to avoid electric shock injury.

THESE ALERTS APPEAR IN THIS MANUAL

DANGER



To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

CAUTION



Do not stack electronic components or other objects on top of the HD receiver. The slots on top of the receiver must be left uncovered to allow proper air-

flow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver. Also do not stack the HD receiver on top of a "hot" component such as an audio power amplifier.

INSTALLATION

Polarization—This HD receiver is equipped with a plug that will fit into the power outlet only one way. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. To prevent electric shock, do not use this plug with an extension cord or outlet unless you can fully insert the blades without blade exposure.

Power Sources—Operate this HD receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

Power-Cord Protection—Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Overloading—Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Ventilation—Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. Do not block any ventilation openings, install in accordance with the manufacturer's instructions.

The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

For electrical safety, power line operated equipment or accessories connected to this unit should bear the UL listing mark and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

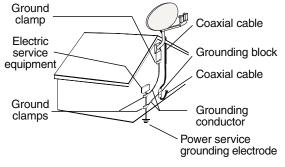
Heat—Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Accessories—To avoid personal injury or damage to the HD receiver, do not place the HD receiver on any unstable cart, stand, table, or bracket. Any mounting of the product should follow the manufacturer's instructions.

Attachments—Do not use attachments unless recommended by Hughes Network Systems as they may cause hazards.

Satellite Dish Antenna Grounding—The outdoor satellite dish antenna used to receive satellite signals and the cable used to connect the satellite dish antenna to the indoor receiving unit are required to comply with local

installation codes and the appropriate sections of the National Electric Code (NEC) and in particular Article 810–15, which covers proper installation and grounding of television receiving equipment, as well as to Article 820–33, which specifies that the satellite dish antenna cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical. These codes require proper grounding of the metal structure of the outdoor satellite dish antenna and grounding of the connecting cable at a point where it enters the house (or other building). If you are having a professional installer make the installation, the installer must observe installation codes. This manual contains instructions on how to make the installation in compliance with the NEC. If additional local installation codes apply, contact local inspection authorities.



EXAMPLE OF ANTENNA GROUNDING ACCORDING TO THE NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN "RADIO AND TELEVISION EQUIPMENT"

Note: The HD receiver shall be grounded through the satellite/local antenna cable before plugging into the telephone jack, and it must remain grounded thereafter.

Water and Moisture—Warning! To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Lightning—For added protection for this product, unplug this apparatus during lightning storms or when unused for long periods of time. Unplug it from the wall outlet, disconnect the antenna and cable system, and disconnect it from the telephone line. This will prevent damage to the product due to lightning and power line surges.

Television Antenna Information—Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer. Do not locate the outside antenna system in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits, as contact with them might be fatal. If an outside antenna is connected to the HD receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the NEC,

NFPA No. 70 1987, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Note to CATV System Installer—This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and particularly specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Power Lines—Extreme care must be taken when installing and adjusting or maintaining the outdoor antenna and connecting cable, especially in the vicinity of overhead power lines, electric lights, or power circuits. When installing the outdoor antenna or cable, extreme

care should be taken to keep from touching or approaching such power lines or circuits, as contact with them might be fatal.

Cleaning—Unplug this HD receiver from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Clean only with dry cloth.

Object and Liquid Entry—Never push objects of any kind into this HD receiver through openings as they may touch dangerous voltages or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the HD receiver. No objects filled with liquids, such as vases, shall be placed on the apparatus.

SERVICE

Servicing—Do not attempt to service this HD receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

Conditions Requiring Service—Unplug the HD receiver from the wall outlet and refer servicing to qualified personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled on, or objects have fallen into, the HD receiver or it has been exposed to water.
- If the HD receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Other adjustments may result in damage and will

- often require extensive work by a qualified technician to restore the HD receiver to its normal operation.
- If the HD receiver has been dropped or the cabinet has been damaged.
- When the HD receiver exhibits a distinct change in performance.

Replacement Parts—When replacement parts are required, have the technician verify that the replacements being used have the same safety characteristics as the original parts. Use of replacement parts specified by the manufacturer can prevent fire, electric shock, or other hazards

Safety Check—Upon completion of any service or repairs to this HD receiver, ask the service technician to perform safety checks recommended by the manufacturer to determine that the HD receiver is in safe operating condition.

Federal Communications Commission (FCC) Regulatory Information

Federal Communications Commission (FCC)—

This equipment complies with both Part 15 and Part 68 of the FCC rules.

Part 15 compliance—

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving satellite dish antenna.
- Increase the separation between the equipment and the HD receiver.
- Connect the equipment into an outlet on a circuit different from that to which the HD receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio and TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC.

To meet FCC requirements, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this device. Operation with noncertified peripherals is likely to result in interference to radio and TV reception.

To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral, or other Class B certified device.

Part 68 compliance—

 This equipment complies with Part 68 of the FCC rules. On the modem card is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. If requested, this information must be provided to the Telephone Company. The REN is used to determine the quantity of devices which may be connected to the telephone line. An excessive number of REN's on the line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the number of REN's should not exceed five (5). To be certain of the number of devices that may be connected to the line, contact the Telephone Company to determine the maximum number of REN's permitted for the calling area.

- 2) If the terminal equipment Platinum (Model Number: HIRD-E8) causes harm to the telephone network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. But, if advance notice is not practical, the Telephone Company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC, if you believe it is necessary.
- 3) The Telephone Company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the Telephone Company will provide advance notice in order for you to make the necessary modifications in order to maintain interrupted service.
- 4) If trouble is experienced with the equipment Platinum HD Receiver (Model Number: HIRD-E8), please contact the following for repair and/or warranty information:

Hughes Customer Care Center Germantown, MD 20876 Telephone Number: 1-800-274-8995 http://www.hns-usa.com email: hughestv@hns.com

- Hughes Network Systems must make any necessary repairs to the modem portion of this equipment in order to maintain valid FCC registration.
 Do not attempt to repair or service your modem.
 Return it to Hughes Network Systems.
- No repairs can be made by customers. All repairs are to be done by Hughes Network Systems Authorized Service Centers (ASC).
- This equipment cannot be used on public coin service provided by the Telephone Company.
 Connection to Party Line Service is subject to state tariffs.

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A First Look at the HD System

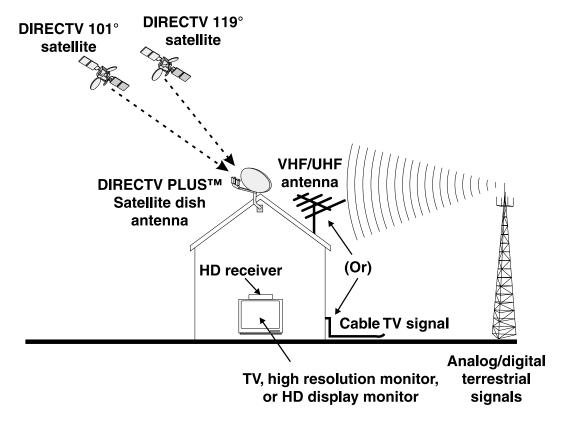


Congratulations! You've selected one of the most advanced digital video and audio components available today. You now have the capacity to receive hundreds of channels of video programming and digital-quality audio.

What You Should Do First

Your HD system is both a sophisticated technical product and an easy-to-operate source of entertainment. You should complete the following steps to achieve the greatest performance from your system:

- Read this manual to familiarize yourself with the system.
- Install the HD receiver.
- Connect the terrestrial antenna or cable for local analog and digital channels.
- Install the DIRECTV PLUSTM antenna and cables. Professional installation is strongly recommended.
- Align the satellite dish antenna.
- Arrange for programming from DIRECTV.



The Broadcasting and Receiving network

How Does All This Work?

First, here is some information about your HD receiver. Your HD receiver can receive three types of television signals:

- Analog signals in NTSC (National Television Systems Committee—traditional TV signals) format—from terrestrial, or broadcasting towers built on earth, and cable sources.
- **Digital** signals in **ATSC** (Advanced Television Systems Committee—digital TV signals) format—from terrestrial sources.
- **Digital Satellite** signals—from DIRECTV satellites in space. These signals can be either Standard Definition (SD) signals or High Definition (HD) signals.

Second, here is some information about the broadcasting and receiving network shown.

Television stations, film studios, and other broadcasters send signals to earthbound terrestrial broadcasting towers and satellites. The tower shown on the right is sending **Digital ATSC** format signals and the more traditional **Analog NTSC** format signals. Both ATSC and NTSC signals can be received by the same VHF/UHF antenna normally mounted on a roof or in an attic. The satellites shown are sending DIRECTV programming signals which are received by a DIRECTV PLUSTM Satellite Dish Antenna usually mounted on a roof or on the ground. These satellites are located in geostationary orbit. Cable television signals are received through cables installed by cable television providers. The terrestrial broadcast (from a tower), satellite, and cable signals then go into your HD receiver where they are processed and sent to your television set.

HD System Components

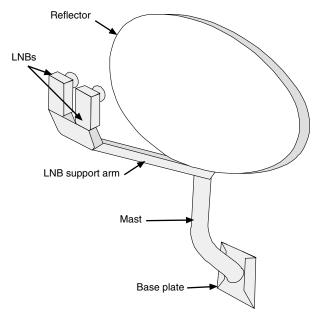
There are three main components of the HD system. They are the DIRECTV PLUSTM satellite dish antenna, the HD receiver, and the remote control.

The DIRECTV PLUS™ Satellite Dish Antenna

The satellite dish antenna is the component that receives the digital signals. It must be mounted to a solid outdoor surface that allows a clear view of the southern sky.

The large dish-shaped part is known as the reflector. The oval-shaped DIRECTV PLUSTM satellite dish antenna enables reception of DIRECTV High Definition Programming throughout the United States and local stations in specific cities. The dimenstions of the oval dish reflector are approximately 18 inches high by 24 inches wide.

A Low Noise Block (LNB) Down Converter assembly is attached to the satellite dish antenna at the end of a tubular arm. Your assembly provides for receiving signals from multiple satellite orbit locations and distributing the signal



The satellite dish antenna parts. While your dish may vary in appearance, the components are referred to using the same names.

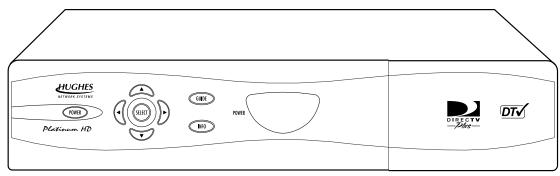
to the HD receiver and up to 3 more DIRECTV digital satellite receivers through the use of a multiswitch (not shown).

The mounting bracket and base plate make adjustments easy during installation. Once the satellite dish antenna has been properly positioned to point toward the satellites, you should never need to adjust it again.

Refer to the instructions included with the satellite dish for more details. Professional installation is strongly recommended.

The HD Receiver with DIRECTV PLUS™ Receiver Built-in

The HD receiver is one of the most compact available today. The basic features for setup, installation, and viewing programming can be accessed from the front panel keys.



The front of the HD receiver

Your access card is located behind the door on the right side of the HD receiver. This special card contains information about your services. This card should not be removed except to protect the HD receiver from unauthorized use or to replace the card when DIRECTV supplies a new one.

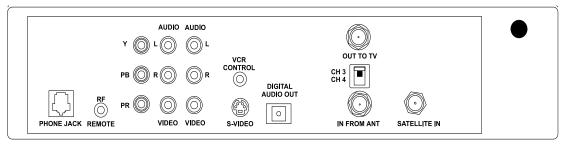
The power key (POWED) is used to turn the HD receiver on and off. The power light will illuminate when the unit is on.

The information key () is used to display descriptions of programs and channels on your TV screen.

Pressing the (key on the front panel will display the on-screen guide, where you can see a listing of all available programs. If the (key is pressed while the program guide is already displayed, the Guide Pop-Up menu will be displayed. The Guide Pop-Up menu provides access to the Main Menu or to the different program guide sorting options.

The four directional keys, up (\blacktriangle), down (\blacktriangledown), left (\blacktriangleleft), and right (\blacktriangleright), are used to move the highlight around the program guide and menus. Up and down keys also provide access to the **OneLine**TM **Guide** when menus aren't displayed.

The select key (SIEC) is used to access a highlighted guide or menu item.



The rear of the HD receiver (power cord not shown)

The rear of the HD receiver has numerous jacks for connection to your audio/video entertainment system. You will also find the power cord permanently connected to the back.

The **SATELLITE-IN** F-type jack is for connecting the cable from your satellite dish antenna to the HD receiver. Be sure that you use RG-6 cable only. The **SATELLITE-IN** F-type jack can also accept a terrestrial analog or digital input when combined with the satellite signal using a diplexer.

Note: Refer to "HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service" in Chapter 2 for more information on using a diplexer. This is an advanced installation technique and professional installation is recommended.

The **IN FROM ANT** jack is for connecting a terrestrial analog or digital antenna to your HD receiver.

The **OUT TO TV** F-type jack is an RF output that you may connect to your standard definition (SD) TV or videocassette recorder (VCR) (depending on your entertainment system). Note that the **CH3/CH4** switch enables you to select the channel on which HD receiver signals will appear. Select this channel on your TV or VCR to view or record these signals.

Three component signal output jacks Y (Luminance), P_r (the amount of color Red is different from Luminance), and P_b (the amount of color Blue is different from Luminance) are connected to a High Definition (HD) monitor set to achieve highest quality video images. The output format is always 1080i.

The phono-type **AUDIO** output jacks, labeled and color-coded (**L** is white, and **R** is red) to indicate Left and Right, can be used for connection to your TV, VCR, or audio system. The phono-type composite **VIDEO** output jack is color-coded yellow and provides SD video signals. You may use this jack for connection to your TV or VCR. The multiple-pin **S-VIDEO** jack is for high-quality video output. Use this jack to achieve the clearest SD picture for your TV or VCR. The output format signals for RF, video, and S-video are always 480i.

The VCR CONTROL mini-jack is for connecting the VCR control cable that is included with the system. With this cable, the HD receiver can interface with most popular brands of VCRs to record selected programs automatically.

There is one **DIGITAL AUDIO OUT** connector which is **OPTICAL.** It provides signals for connection to a Dolby[®] Digital decoder.

The **RF REMOTE** jack is used to plug in the RF receiver which came with your system. Connecting this receiver will allow you to operate the HD receiver from other rooms in your home when using the Whole House RF remote control.

The standard RJ-11 modular **PHONE JACK** is for connecting the HD receiver to your telephone line. This telephone connection is necessary to access certain program offerings such as Pay Per View. Telephone calls generated by the HD receiver are toll-free. The telephone line connection will not normally interfere with your telephone operation.

Note: The HD receiver will convert all video signals to High Definition (1080i format) and send these through the Y, P_r , and P_b connectors. Also the HD receiver will convert all video signals to Standard Definition (480i format) and send these through the OUT TO TV, VIDEO, and S-VIDEO connectors. When Standard Definition is being sent, the Y, P_r , and P_b connectors will not send any video. The HD receiver cannot send both HD and SD at the same time.

The Remote Control

Your HD receiver includes an RF/IR remote control and RF receiver. With this combination you can have complete control of your HD receiver anywhere in your house. Refer to "RF Remote Control Receiver" for instructions on setting up the RF receiver.

Each remote control can control your HD receiver and most TV brands, as well as VCRs and many other auxiliary devices such as cable boxes, amplifiers, and laser disc players.

The mode keys across the top of the remote control enable you to specify the device you intend to control. This is important since many devices share the same keys, such as the **POWED** key and the numeric keys. You must press the appropriate device key before pressing a command key to make sure the remote control sends the right signal to the right device. The only keys that deviate from this rule are the blue keys, as they are always associated with the HD receiver.

For the HD receiver only, the four directional keys will cause the on-screen highlight to move in the direction you want. The keys will be referred to as \blacktriangleleft , \triangleright , \triangle , and \blacktriangledown .

The select key (SELECT) is one of the most important keys. Pressing the SELECT key will tell the HD receiver that you wish to choose the highlighted item.

The arch of keys above the directional keys control frequently used functions. These include special action ((), information (), guide ((), exit (()), and favorite (()) keys.

The key is unique because it does nothing by itself. Pressing it displays the action icon in the upper left corner of your screen for

The remote control

a few seconds. During that time, other keys may be pressed to access special functions indicated in yellow above the keys. Refer to the chart on the next page for a list of key functions.

The following chart describes the key functions for easy reference:

Keys	Label	Feature
ACTION FAV	LIST	Displays the CHANNEL LISTS screen
ACTION OH	SERVICES	Displays the Alternate Services menu
ACTION 1	MOVIES	Filters the on-screen guide to movies only*
ACTION 2	SPORTS	Filters the on-screen guide to sports only*
ACTION 3	NEWS	Filters the on-screen guide to news only*
ACTION -	ALPHA	Select channel by call sign
ACTION INPUT	HD/SD	Switches the output of the HD receiver between HD and SD** Also switches between the DTV (HD) input and INPUT 2 (SD) on Mitsubishi HD-upgradeable TVs.
ACTION 8		Changes display between FULL, CROPPED and LETTERBOX or SIDE PANELS.

^{*} Pressing this sequence a second time will undo the respective filter.

The remaining keys are HD receiver-specific keys and common device keys, including numbers, channel up and down, etc. The functions of these keys change depending on the device currently selected.

Please refer to "Controlling the HD Receiver" in Chapter 3 for more remote control capabilities and "Programming Your Remote Control" in Chapter 8 for setting your remote control to handle other audio/video components.

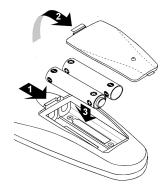
Descriptions and details of each individual key will be given in the appropriate subsections throughout this manual.

^{**} HD formatted video output (1080i) uses the $\mathbf{Y}, \mathbf{P_r}$, and $\mathbf{P_b}$ jacks. SD formatted video output (480i) uses the Video, S-video, and \mathbf{Out} to \mathbf{TV} jack. Note: The first time you turn your system on, the HD formatted video output is active. You may have to press the same key followed by the representation of switching from HD to SD can be found in the section "Now You Can Turn It On" on page 2–15. You can also achieve this from the front panel by pressing the GUDE and keys simultaneously.

Installing the Remote Control Batteries

Before the remote control can be used, the two supplied batteries need to be installed. First, unsnap the battery cover from the back of the remote control. Install each fresh battery as shown, making sure that the + and – on each battery line up with the marks in the battery compartment. Next, snap the cover back onto the remote control.

Refer to "Programming Your Remote Control" in Chapter 8 for setting the codes to control the devices in your entertainment system.



Battery installation

Setting Up Your HD Receiver

It is recommended that you have the satellite dish antenna professionally installed due to safety issues and electrical codes.

Note: If you should choose to install the dish antenna yourself, please pay special attention to the precautions in the front of this manual and refer to the installation instructions packaged with the satellite dish antenna. You can find information on using this HD receiver to point the dish antenna in Chapter 4, "Setting Up the Satellite Dish Antenna and Terrestrial Inputs."

DANGER



To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

You may also want to obtain the Do-It-Yourself Installation Kit, sold separately.

This chapter provides step-by-step instructions for setting up your HD system and connecting it to your television or entertainment system.

The carton includes the HD receiver with DIRECTV PLUS™ receiver built-in, an access card (already installed in the HD receiver behind the door), an RF/IR remote control (batteries included), RF remote control receiver, cables, and the Owner's Manual.

You now need to decide where you want to place the HD receiver. Choose a location near your TV where the power cord or cables will not be inadvertently disconnected.

CAUTION

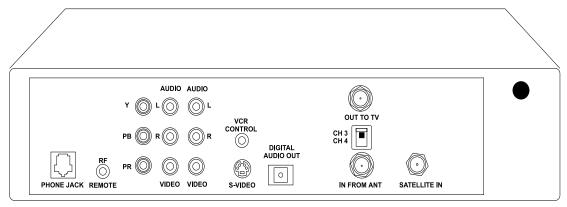


Do not stack electronic components or other objects on top of the HD receiver. The slots on top of the receiver must be left uncovered to

allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver. Also do not stack the HD receiver on top of a "hot" component such as an audio power amplifier.

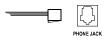
Choosing the Best Connection for Your Entertainment System

There are a number of ways to connect the HD receiver, depending on the other audio/video equipment you wish to use. The simplest hookups are described in the following subsections.



The rear of the HD receiver (power cord not shown)

Before connecting the HD receiver to your entertainment system, you should connect the phone line. This can be done by plugging one end of the provided telephone cable into the **PHONE JACK** on the back of the HD receiver and the other end into a telephone wall jack. If you do not have a telephone jack within reach, you should move the HD receiver to be within reach of a telephone wall jack or have a new one installed.



The phone line and jack

To suit your specific needs, you may need to purchase additional connectors and/or cables from your dealer or electronic hardware store. Choose which hookup method to use based on:

- The capabilities of your TV and VCR.
- Your desire to receive local terrestrial analog and/or digital programming through the HD receiver.
- Any other devices you want to include in the system (stereo, second VCR, etc.).

Before attempting to connect anything, position yourself so you are looking at the back of your components. Note the various input and output receptacles, their shapes, and how they are labeled. Then read through the rest of this connection subsection before going ahead with the actual hookup.

Note: For your safety, make sure the HD receiver, TV, VCR, and any other devices to be connected are unplugged from the power outlet while hooking them up.

Some of the connection methods described in this chapter may require optional cables or accessories that are not included with your HD receiver.

HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service

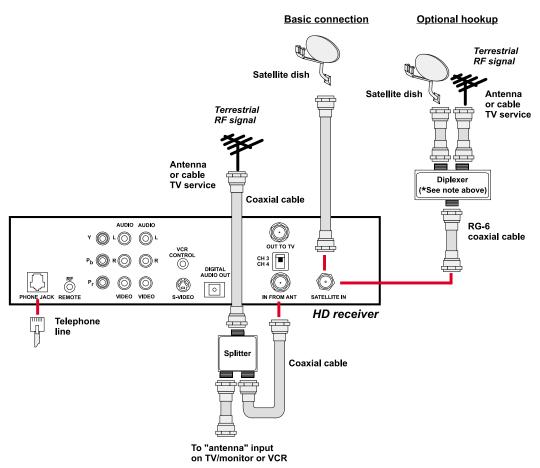
Follow these steps indicated by the diagram below:

1) Connect the RG-6 Coaxial Cable from the satellite dish antenna to the back of the HD receiver using the connector marked **SATELLITE IN.**

Optional Hookup: If you plan to combine an outside terrestrial antenna with the signal from the satellite dish antenna, obtain a signal Diplexer* from your local retailer of satellite accessories. Connect the RG-6 Coaxial Cable from the satellite dish antenna to the "power pass" input of the Diplexer. Connect the output of the Diplexer to the back of the HD receiver at the connector marked **SATELLITE IN.**

- * Note: It is very important that you use a Diplexer that is designed to combine satellite signals and terrestrial signals. Standard signal combiners are not compatible.
- 2) Connect the cable from your terrestrial antenna or cable TV service to the HD receiver at the connection marked **IN FROM ANT.**

Optional Hookup: If you plan to record a terrestrial signal while watching satellite programming, or vice versa, connect the cable from your terrestrial antenna or cable TV service to the input of a standard two-way splitter as shown in the hookup diagram.



Note: In order for the Advanced Program GuideTM to receive the correct listing of local channels and local program information from DIRECTV, make sure you select the correct zip code, cable provider (if connecting a cable TV service) and Area (if using a terrestrial antenna). Refer to Chapter 4, "Setting Up the Satellite Dish Antenna and Terrestrial Inputs."

Using both the IN FROM ANT connector and the SATELLITE connector with a diplexer, you may connect one antenna and one cable TV service cable at the same time, however this HD receiver and the Advanced Program $Guide^{TM}$ cannot support two antennas connected or cable TV service connected in two places at the same time.

HD Receiver and HDTV Monitor

Follow these steps indicated by the diagram following this text.

- 1) Connect the satellite dish antenna and terrestrial antenna or cable service to the HD receiver following instructions in "HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service" on page 2-3.
- 2) Connect one set of Component Video Cables (one green Y connector, one red P_r connector, and one blue P_b connector) to the back of the HD receiver using the connections marked Y, P_r , and P_b . Connect the other ends of this cable to the back of the HDTV monitor using the HDTV input connections marked Y, P_r , and P_b .

Note: Connect the Y, P_r , and P_b connectors of the HD receiver only to the Y, P_r , and P_b connectors on your TV that are compatible with HD signals in the 1080i scanning rate and that comply with the EIA 770.3 signal standards. Refer to your television owner's guide for verification.

3) Connect one set of audio cables (one white left audio connector and one red right audio connector) to the back of the HD receiver using the connectors marked AUDIO L, R. Connect the other end of the audio cables to the back of the HDTV monitor using the audio inputs.

Note: This connection allows the use of the speakers in the TV to hear the sound.

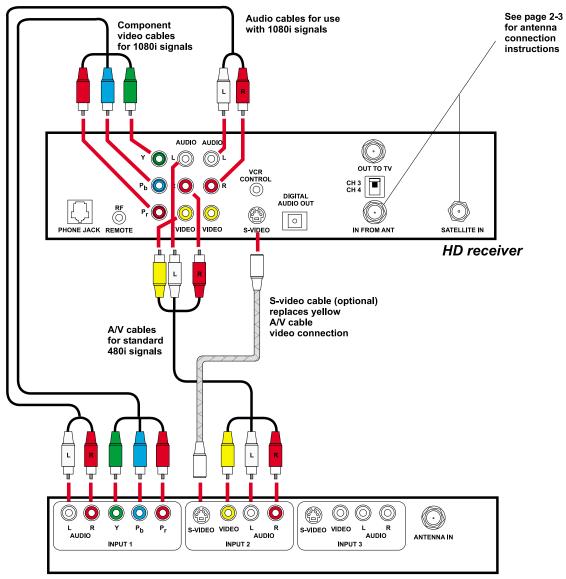
4) **Optional:** Connect one set of audio cables and a video or S-video cable to the back of the HD receiver using the connectors marked AUDIO L, R and VIDEO or S-VIDEO.

Connect the other end of audio and video cables to the back of the HD monitor using the AUDIO and VIDEO or S-VIDEO inputs.

Note: This connection allows you to send standard 480i signals to your TV.

For better standard definition performance, if your TV has an S-VIDEO connector, then use an S-video cable instead of the yellow video cable.

Note: When the HD receiver is converting all signals to standard 480i signals that can be viewed on standard video inputs of TVs, there will be no signals on the Y, P_r , and P_b connectors. When the HD receiver is converting all signals to 1080i that can be sent to the HDTV input of HD monitors, there will be no standard 480i signals to standard video inputs of TVs.



HDTV monitor

HD Receiver with HDTV Monitor and VCR

Follow these steps indicated by the diagram following this text.

- 1) Connect the satellite dish antenna and terrestrial antenna or cable service to the HD receiver following the instructions in "HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service" on page 2-3.
- 2) Connect one set of Component Video Cables (one green Y connector, one red P_r connector, and one blue P_b connector) to the back of the HD receiver using the connections marked Y, P_r , and P_b . Connect the other ends of this cable to the back of the HDTV monitor using the HDTV input connections marked Y, P_r , and P_b .

Note: Connect the Y, P_r , and P_b connectors of the HD receiver only to the Y, P_r , and P_b connectors on your TV that are compatible with HD signals in the

1080i scanning rate and that comply with the EIA 770.3 signal standards. Refer to your television owner's guide for verification.

3) Connect one set of audio cables (one white left audio connector and one red right audio connector) to the back of the HD receiver using the connectors marked AUDIO L, R. Connect the other end of the audio cables to the back of the HDTV monitor using the audio inputs.

Note: This connection allows the use of the speakers in the TV to hear the sound.

- 4) Connect a set of audio and video or S-video cables to the second set of AUDIO L, R, and VIDEO or S-VIDEO connectors on the back of the HD receiver. Connect the other end to the AUDIO, VIDEO, or S-VIDEO input connections on the back of the VCR.
- 5) Connect another set of audio and video or S-video cables to the back of the VCR using the AUDIO and VIDEO output connection. Connect the other end of this cable to a group of standard AUDIO, VIDEO, or S-VIDEO input connections on the back of your TV.

Note: This connection allows you to send HD receiver signals, converted to standard 480i signals, to your VCR so they can be recorded.

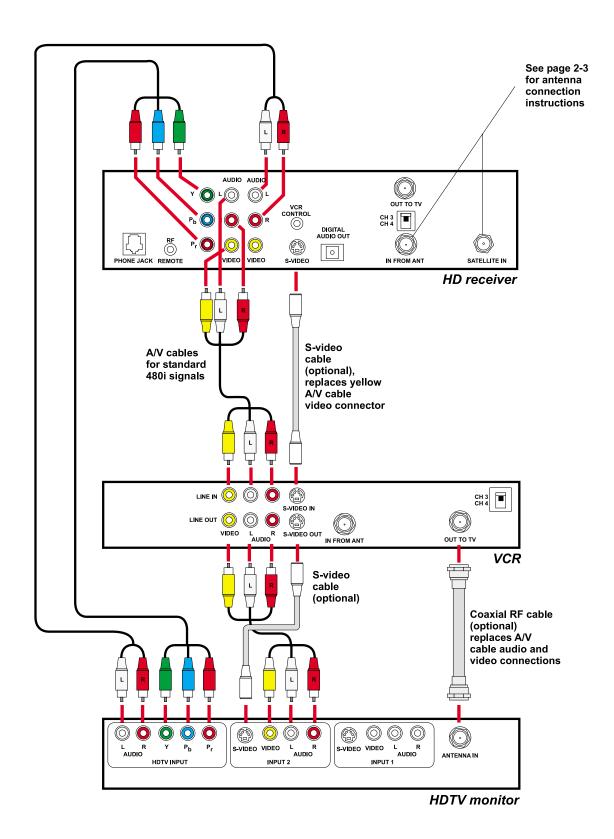
You can see the playback of a video tape by selecting this input on your TV. You can also pass HD receiver signals, converted to standard 480i, through your VCR to your TV; however, you may need to turn on your VCR to pass these signals.

When the HD receiver is converting all signals to standard 480i signals that can be recorded by standard VCRs, there will be no signals on the Y, P_r , and P_b connectors.

When the HD receiver is converting all signals to 1080i that can be sent to the HDTV input of the HD monitors, there will be no standard 480i signals to send to VCRs or standard video inputs of TVs.

For better performance, if both the TV and the VCR have S-video connectors, use S-video cables instead of standard yellow video cables.

Note: If you have connected a VCR into your entertainment system in a way that routes the cables from the HD receiver to your VCR before the signal reaches the TV, you may experience a distorted picture if you attempt to record a copy-protected program. These programs are identified by a "Can't Tape" symbol in the banner area of the screen. If this occurs, simply stop the recording process and your picture will automatically correct itself.

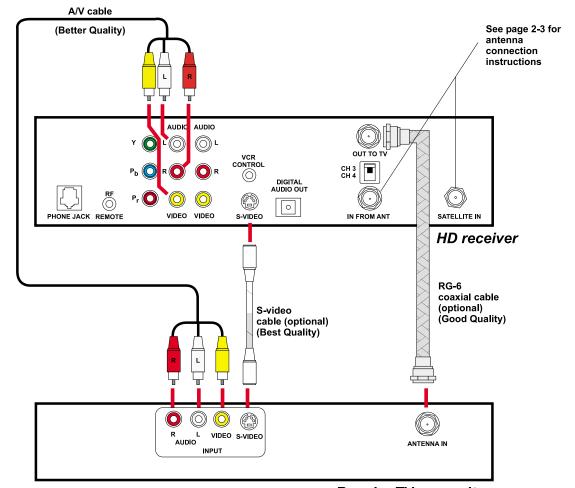


HD Receiver and Standard Definition TV Monitor

Follow these steps indicated by the diagram following this text.

- 1) Connect the satellite dish antenna and terrestrial antenna or cable service to the HD receiver following the instructions in "HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service" on page 2–3.
- 2) Connect one set of standard audio and video cables (one yellow video connector, one white left audio connector, and one red right audio connector) to the back of the HD receiver using the connectors marked AUDIO L, R and VIDEO. Connect the other end of the audio and video cable to the back of the TV monitor using the AUDIO and VIDEO inputs.
 - **Optional:** If your TV has an S-VIDEO input, then connect one end of an S-video cable to the back of the HD receiver using the output marked **S-VIDEO.** Connect the other end of the S-video cable to the back of the TV making sure to pair the S-VIDEO input with the previously used audio inputs. If you use an S-video cable, you will not need to use the yellow video cable.
- 3) **Optional:** If the TV does not have AUDIO and VIDEO input connectors, then connect one end of a coaxial RF cable to the OUT TO TV connector on the back of the HD receiver. Connect the other end of the coaxial RF cable to the antenna input connector on the back of the TV. Set the CH3/CH4 switch to the channel not used in your area. This is the channel you will select on your TV to view the HD receiver.

Note: 1) When the HD receiver is in standby (power LED off), the receiver will pass the signal received at the "In From Ant" connector out of the "Out To TV" connector unaltered. 2) When the HD receiver is turned on and set to the HD (1080i) output mode, the HD receiver will pass the signal received at the "In From Ant" connector out of the "Out To TV" connector unaltered. 3) When the HD receiver is set to the SD (480i) output mode, the channel the HD receiver has selected will be changed to channel 3 or 4 and sent out of the "Out To TV" connector. All other channels will be blocked.



Regular TV or monitor

HD Receiver with Standard Definition TV Monitor and VCR

Follow these steps indicated by the diagram on page 2-11.

- 1) Connect the satellite dish antenna and terrestrial antenna or cable service to the HD receiver following the instructions in "HD Receiver and Satellite Dish Antenna with Terrestrial Antenna or Cable Service" on page 2–3.
- 2) Connect one set of standard Audio and Video cables (one yellow video connector, one white left audio connector, and one red right audio connector) to the back of the HD receiver using the connectors marked AUDIO L, R and VIDEO. Connect the other end of the Audio and Video cables to the back of the TV monitor using the AUDIO and VIDEO input connectors.
 - **Optional:** For better performance, if your TV has an S-VIDEO input, then use an S-Video cable instead of a standard yellow Video cable.
- 3) Connect another set of standard Audio and Video cables to the back of the HD receiver using the connectors marked AUDIO L, R and VIDEO. Connect the other end of the audio and video cables to the back of the VCR using the AUDIO and VIDEO input connectors.

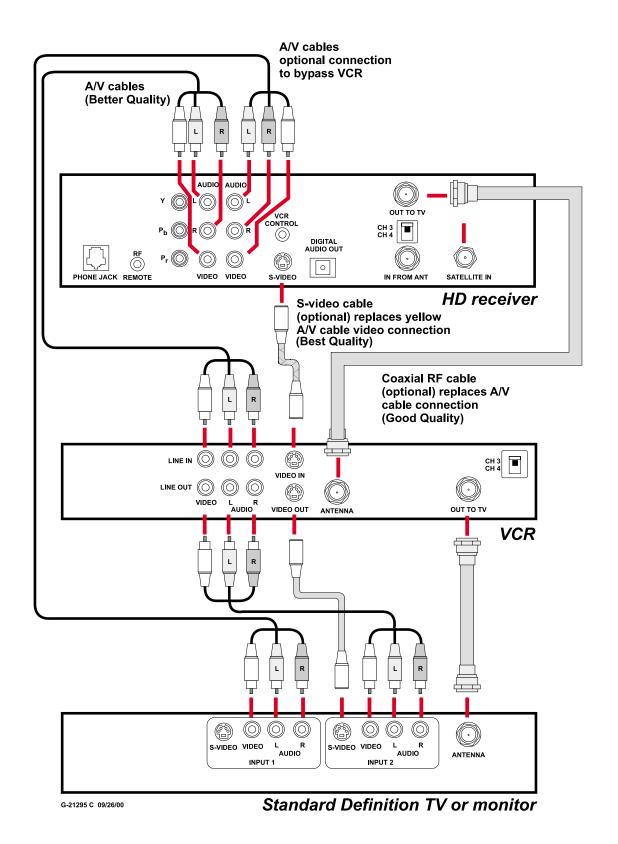
4) Connect another set of standard audio and video cables to the back of the VCR using the AUDIO and VIDEO output connectors. Connect the other end of this cable to another group of unused input connectors on the back of the TV.

Note: There are possible variations to steps 2, 3, and 4 above. For example, if your TV or monitor has only one set of AUDIO and VIDEO input connectors, or if you have an S-VHS VCR, you may choose the following connection variation: Connect the AUDIO and VIDEO or S-VIDEO connectors of the HD receiver only to the VCR. Then connect the VCR output connectors to the TV. In this situation, you may need to turn on your VCR to pass HD receiver signals to your TV.

5) **Optional:** If the TV does not have AUDIO and VIDEO input connectors, then connect one end of a coaxial RF cable to the OUT TO TV connector on the back of the HD receiver. Connect the other end of the coaxial RF cable to the antenna input connector on the back of the VCR. Connect another coaxial RF cable to the antenna output connector on the back of the VCR and connect the other end of this cable to the ANTENNA or VHF input connector on the back of the TV. Set the CH3/CH4 switch on the HD receiver to the channel not used in your area. This is the channel you will select on your TV to view the HD receiver.

Note: If you have connected a VCR into your entertainment system in a way that routes the cables from the HD receiver to your VCR before the signal reaches the TV, you may experience a distorted picture if you attempt to record a copy-protected program. These programs are identified by a "Can't Tape" symbol in the banner area of the screen. If this occurs, simply stop the recording process and your picture will automatically correct itself.

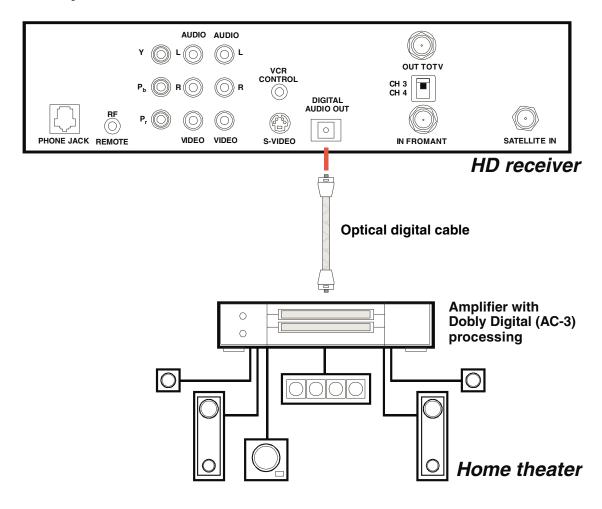
Note: 1) When the HD receiver is in standby (power LED off), the receiver will pass the signal received at the "In From Ant" connector out of the "Out To TV" connector unaltered. 2) When the HD receiver is turned on and set to the HD (1080i) output mode, the HD receiver will pass the signal received at the "In From Ant" connector out of the "Out To TV" connector unaltered. 3) When the HD receiver is set to the SD (480i) output mode, the channel the HD receiver has selected will be changed to channel 3 or 4 and sent out of the "Out To TV" connector. All other channels will be blocked.



HD Receiver and Dolby® Digital Receiver or Decoder

Follow these steps indicated by the diagram below:

- 1) Connect an optical digital cable to the back of the HD receiver using the connector marked **DIGITAL AUDIO OUT.** Connect the other end of this cable to the optical input on the back of your Dolby Digital receiver or decoder.
- 2) Check the Owner's Guide for the Dolby Digital receiver or decoder for proper set-up and operation.

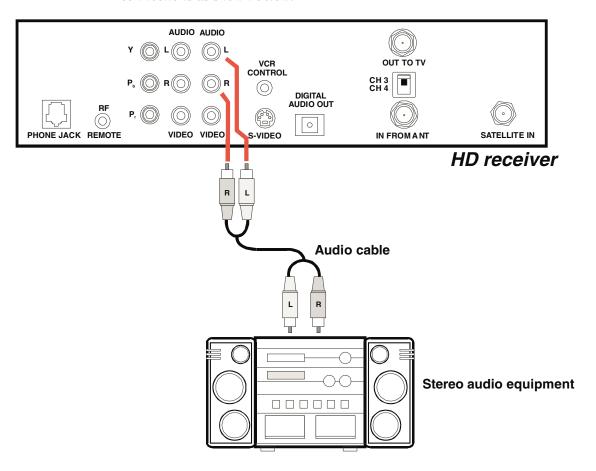


HD Receiver and Standard Stereo System

Follow these steps indicated by the diagram below:

1) Connect a set of stereo audio cables (one white left connector and one red right connector) to the back of the HD receiver using the connectors marked AUDIO L, R. Connect the other ends of the cables to the back of your stereo system using a set of AUDIO inputs. You may select any input except for the input marked PHONO, TT, or TURN-TABLE. Those inputs are for turntables only and will distort the sound from any other components.

Note: If you used both sets of connectors marked VIDEO and AUDIO L, R in connecting your TV or VCR you will have to replace one set of the AUDIO L, R connections as shown below.



Finishing Up

You can mix and match the different hookups described herein to suit your entertainment system's available connections. For example, you can connect the VCR using audio/video cables, while the TV is connected with the RF signal using a coaxial RF cable. Always try to achieve the highest quality audio and video and greatest flexibility possible.

Once all connections have been completed, plug in the TV, VCR, and HD receiver to the wall outlet. Use an appropriate extension cord or surge protector if necessary. See "Important Safety Instructions" described in the front of this manual.

Connecting the VCR Control Cable

With the proper connections the HD receiver can control your VCR for unattended recording.



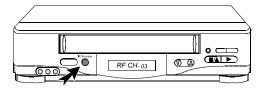
Note: The output of the HD receiver must be in SD mode to record using the hookup configurations previously described in this chapter.

The VCR Control cable and jack

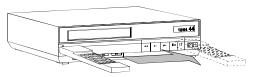
Finding the VCR's Remote Control Sensor

Plug the VCR control cable into the back of the HD receiver. So that the HD receiver can control your VCR, the emitter end of the VCR control cable must be attached where the VCR's remote control sensor is located. This is labeled on some VCRs. You may also find a diagram in your VCR manual indicating the sensor position. It is commonly identifiable by a small dark plastic window. For reference, see the sensor on the HD receiver located behind the door.

If the sensor is not labeled or documented, you will need to scan the front of your VCR with your VCR remote control. Use the following procedure to accomplish this:



Look for indications of the remote control sensor



Scanning for the remote control sensor

- Hold the VCR remote control about ½-inch from the front left side of your VCR.
- Slowly move the remote control to the right repeatedly pressing the remote control's **POWED** key on and off.
- Once the VCR responds to pressing the POWER key on the remote control, note the position of the remote control. This should indicate the location of the VCR remote control sensor.

Once the sensor position has been determined, temporarily attach the emitter to the area with a piece of tape until the system can be tested. Refer to the "VCR Setup" subsection in Chapter 7, "HD Receiver's Menu System," to program and test the VCR control feature.

Upon verifying that the VCR control is functioning properly, you can remove the tape and permanently attach the emitter using the peel-and-stick backing. This attachment should not interfere with normal VCR operation.

RF Remote Control Receiver

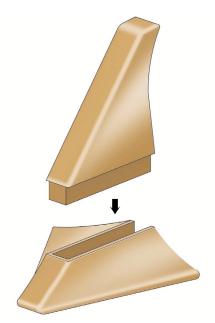
Your HD receiver includes an RF/IR remote control and RF receiver. With this combination you can have complete control of your HD receiver from other rooms inside your house. The RF/IR remote control emits a powerful radio signal that is then broadcast up to a distance of 100 feet to the RF receiver. No tools are needed to install the RF receiver. The range of the RF remote control is a maximum of 100 feet, however weakened batteries and some building materials in walls, floors, and ceilings may reduce this range.

Connecting the RF Remote Control Receiver/ Antenna

You can place the RF remote control receiver base behind the HD receiver or hidden elsewhere out of view.

Plug the RF remote control receiver cable into the **RF REMOTE** connector on the rear of the HD receiver. Extend the cable and place the antenna in the desired location. To achieve the best operating range from the remote control, the antenna should be placed as high and as far away from metal objects as possible.

This completes the installation. Go to the location where you would like to use the remote control and try it. If you experience any problems, verify that the batteries are strong and you are within operating range. If you continue to have problems, try repositioning the RF remote control receiver.



Whole House RF remote control receiver

Setting the Address of Your HD Receiver and Remote Control

To avoid interference between your remote control and neighbors who may have a similar model remote control, you should change the remote control broadcast address of your remote controls and HD receiver. This is similar to choosing a channel on a cordless phone so that you and your neighbors don't hear each other's conversations.

See Chapter 7, "HD Receiver's Menu System, Advanced Preferences, Receiver ID," for instructions on changing the remote control address for the HD receiver.

See Chapter 8, "Programming Your Remote Control, Using the Remote Control," for instructions on changing the remote control address.

Now You Can Turn It On

Once you have connected everything, you can begin powering up the components. Turn the TV on and set it to the HD input, VIDEO or S-VIDEO, or the HD receiver's output channel (3 or 4). Do the same for the VCR, if applicable. Now turn the HD receiver on. You will see the start-up screen for several seconds.

Note: The HD receiver VIDEO output defaults to the Y, P_r , and P_b HD connectors when first used. If you are not using an HDTV monitor, or prefer to use the standard video outputs, try switching the outputs of the HD receiver from HD to SD. Using the remote control, press the button once, then press the button, followed by the button. Pressing this sequence of keys will switch the receiver between the High Definition (1080i) output mode and the Standard Definition (480i) output mode. Following one or more of this sequence, your picture should appear. This is not a toggle process, but instead tells the receiver to output HD or SD depending upon which command was sent to the receiver most recently.

You can also achieve this from the front panel by pressing the \bigcirc and \blacktriangle keys simultaneously.

POWER-ON Screen

As power is applied to the HD receiver for the first time after being plugged in or after a power failure, the **POWER-ON** screen, shown on the right, is displayed. The screen will not appear each time you press the *Power* button.

A panel will display an *Exit* and an *Installation* button. Below that, a progress meter will display illuminated boxes, which will progressively light up from left to right as the system powers up.



The POWER-ON screen

Exit

Highlighting the *Exit* button on the screen and pressing the series key on the remote control causes an exit from the **POWER-ON** screen and interrupts the Guide data acquisition.

Installation

If the power is on, but the satellite dish antenna or local area antenna or cable system inputs are not yet installed, highlighting the *Installation* button and pressing the key on the remote control will display the **INSTALLATION** screen. Read Chapter 4 for installation and testing instructions.

If the satellite is properly pointed, the program guide is loaded when power is applied. You can exit out of this start up process, but you would not load the current guide data. Allow time for this program data to load.

Note: If your satellite dish is properly pointed and receiving a signal, this bootup process is necessary to completely load the Advanced Program GuideTM information. If you exit this screen before it is complete, or have yet to install the satellite dish, this process will take place later. Loading Advanced Program GuideTM data can take several minutes.

If you are using the HD receiver with only the terrestrial antenna or cable signal, you can immediately exit this screen.

Controlling the HD Receiver

Now it's time for you to take control. Take a few minutes to read through this chapter to understand how to operate your system. Let's begin with a couple of simple rules. First, there is nothing that you can do, using the front panel keys or the remote control keys, which could harm the HD receiver in any way. Once you understand the capabilities and options available in your receiver, you'll be able to undo any changes or settings that you make.

It is not necessary to know everything your system can do right away. As you use the HD receiver, the techniques necessary to control it will become second nature.

Front Panel vs. Remote Control Keys

The front panel provides all the basic controls needed to access and use the primary features of the HD receiver. The remote control has additional keys to provide shortcuts or access to extended features of the HD receiver. Most of the remote control keys can also be used to control other components in your entertainment system. For this reason, you must remember to press the key, putting the remote control in HD receiver mode, when you want to control the HD receiver.

Basic Navigation

The most common HD receiver-related keys that you will use are \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright , and selection. Four distinct keys on the HD receiver front panel represent the direction keys. On the remote control, the direction keys are represented by the top, bottom, left, and right keys surrounding the keys. These keys are primarily used to move the highlight (also known as a cursor) around the screen. Press the selection keys to activate a highlighted item.

Another key you will be using frequently is the key, located on both the front panel of the HD receiver and on the remote control. This key is used when you want to display the current onscreen guide. Once you are in the guide, pressing the key while a program title is highlighted will display the Guide pop-up menu.

Another key appearing on both the front panel and the remote control is the key is used to retrieve descriptive information about a currently airing event and to provide access to scheduling information (and purchasing information for pay per view) about highlighted programs in the on-screen guide.

The final key that appears on both the remote control and the front panel is the week. Make sure the remote control is in "SAT" mode for the week key to control the HD receiver. When you turn the HD receiver off, it has not actually stopped using electricity. Rather, it goes into a standby mode that enables it to continue monitoring data sent from DIRECTV, call in status reports to DIRECTV, start and stop your VCR for programs you have scheduled, receive messages, and perform other background activities.

There are two keys on your remote control that most people use frequently. They are the AND and the AND keys.

After you have established favorite channel lists, as described in Chapter 7, "HD Receiver's Menu System," you can use the key to cycle through them quickly and easily. Each press of the key will advance to the next list of channels. After stepping through the favorite lists, it will cycle back to "All Channels."

At any time, you can exit the on-screen guide by selecting *Video* in the Guide pop-up menu. An even faster way is to press the key. The key also clears all inputs and menus, and returns to the program you were watching.

Setting Up the Satellite Dish Antenna and Terrestrial Inputs

There is a cluster of DIRECTV satellites in space, and, just as a telescope is pointed at a star, you need to point your satellite dish at the satellites. In this chapter, we will explain how to configure your receiver for your satellite dish antenna, where to point your satellite dish antenna, and how to configure your receiver for analog or digital terrestrial (broadcast or cable) reception.

It is recommended that you have the satellite dish and terrestrial antennas professionally installed. If you choose to install the antennas yourself, please pay special attention to the precautions in the front of this manual and refer to the installation instructions packaged with the satellite dish antenna.

Your satellite dish antenna will need to be pointed at a satellite cluster located 22,300 miles in orbit above the equator. To aim the satellite dish antenna at the satellites, you need to know the azimuth, elevation, and tilt angles. The HD receiver will assist you in determining these angles.

Set-up of the satellite dish antenna and terrestrial inputs will be explained in three parts:

- 1) Installing and testing the satellite dish antenna by itself first.
- 2) Setting up and testing terrestrial or cable inputs.
- 3) Setting up and testing terrestrial or cable inputs by themselves, without a satellite dish antenna.

Installing and Testing the Satellite Dish Antenna

Installing your dish antenna involves four separate steps:

- Selecting the correct type of satellite dish antenna.
- Finding the correct dish antenna pointing coordinates.
- Pointing the dish antenna.
- Testing the strength of the satellite signal.

Displaying the INSTALLATION Screen

Highlighting the *Installation* button on the **POWER-ON** screen (explained on page 2-15) and pressing the key on the remote control will display the **INSTALLATION** screen shown on the right.

If this is not the first time the HD receiver is turned on after being plugged in, follow these steps:

- Open the **MAIN MENU** screen by pressing the **GUDE** key followed by the **GUDE** key on the remote control.
- Using the ▲ and ▼ keys, highlight the Setup
 Menu Button then press the SETUP
 the remote control to display the SETUP
 menu.



The INSTALLATION screen

• Using the ▲ and ▼ keys, highlight the *Installation* Button then press the Report key on the remote control to display the **INSTALLATION** screen.

Selecting the Correct Type of Satellite Dish Antenna

You need to select the correct type of dish antenna that you have connected, so that the HD receiver can calculate the correct coordinates for pointing the dish antenna.

Highlighting the *Dish Setup* button on the **INSTALLATION** screen and pressing the key on the remote control will display the **DISH SETUP** screen. Highlighting the *Dish Type* button on the **DISH SETUP** screen and pressing the key on the remote control will display the **DISH TYPE** pop-up menu. Press the ▲ and ▼ keys to highlight the type of dish antenna that is connected to the HD receiver and then press the **SEEG** key.



The DISH SETUP pop-up menu

Dish Type Selections

Note: You must select the correct dish antenna type to obtain correct pointing results.

These are the following dish antenna type selections:

None Highlight this selection if you are not connecting a dish antenna, but are

connecting a terrestrial antenna or cable signal.

Round Dish Highlight this selection if you connected an 18" round dish antenna. This

setting allows the HD receiver to receive a signal from the main satellite,

located at 101°.

Note: A round dish antenna will not receive High Definition satellite signals from DIRECTV.

Oval Dish 2 Highlight this selection if you connected a DIRECTV PLUSTM oval dish

antenna with two LNBs. This setting allows the HD receiver to receive signals from Satellite A at 101° and Satellite B at 119°, enabling reception of DIRECTV High Definition programming throughout the United States as well as local stations in specific cities. Most users will have this type of dish.

Oval Dish 3 Highlight this selection if you connected a DIRECTV PLUSTM oval dish

antenna with the optional Satellite C LNB kit purchased separately from your local satellite system installer. This setting allows the HD receiver to receive signals from Satellite A at 101° , Satellite B at 119° , and Satellite C at 110° , enabling the reception of local stations in additional specific cities in the

United States.

Cancel Highlight this selection to return to the DISH SETUP screen without making

a dish antenna type selection.

Highlighting a selection button as explained immediately above and pressing the selection key on the remote control will confirm the selection and return to the **DISH SETUP** screen.

Finding the Correct Antenna-pointing Coordinates

The **POSITION** pop-up menu will provide you with the correct coordinates to point your dish antenna. This is important to receive all of the channels you are entitled to when you subscribe to DIRECTV.

Highlighting the *Position* button on the **DISH SETUP** menu and pressing the ★ key on the remote control will display the **POSITION** pop-up menu. Using the ★ and ▼ keys, and highlighting either the *ZIP Code* or *Latitude/Longitude* button and pressing the ★ key on the remote control will display the corresponding pop-up menu.



The ZIP Code pop-up menu

To select a digit, use the number keys or the \triangle and \bigvee keys on the remote control to enter your ZIP Code or Latitude and Longitude. After the last number has been entered, highlight the OK button and press the key on the remote control to confirm the entry. The **RESULTS** screen will display. Highlighting the cancel button and pressing the key on the remote control will return to the **DISH SETUP** menu.

Pointing the Dish Antenna

The HD receiver will calculate the correct pointing coordinates and then display this information on the **RESULTS** screen shown on the right. Write down this Elevation, Azimuth, and Tilt information. Then highlighting the *OK* button and pressing the key on the remote control will return to the **DISH SETUP** Menu. Use the coordinates from the **RESULTS** screen to point your dish antenna at the sky. The separate installation instructions that come with the dish antenna will explain exactly how to use the Elevation, Azimuth, and Tilt information.

Note: The round dish has no tilt information.



The RESULTS screen

Testing Signal Strength

The **INSTALLATION** screen shown at the right will display the strengths of signals from the different satellites and the transponders on each satellite. The screen displays a numerical strength indication and a bar graph accompanied by an audible tone to indicate signal strength. The higher the number, the greater the amount of the bar graph occupied, or the faster the beeping tone, the stronger the signal.

You should test the signals from each of the satellites that match the type of dish that you selected on the **DISH TYPE** screen.

Highlighting the *Source* button on the **INSTALLATION** screen and pressing the series key on the remote control will display the **Signal Source** pop-up menu shown at the right. Highlighting the *Satellite A (101°), Satellite B (119°), Satellite C (110°)*, or *Local Digital* Terrestrial and pressing the series key on the remote control will return to the **INSTALLATION** screen and show the signal strength for the selected source.



The INSTALLATION screen



The Signal Source screen

Local Providers

The **LOCAL PROVIDERS** screen allows DIRECTV to add local channels to the Advanced Program GuideTM in the same way that it lists satellite program information.

Highlighting the *Dish Setup* button on the **INSTALLATION** screen and pressing the setup on the remote control will display the **DISH SETUP** screen. Using the ▲ and ▼ keys, highlight these Local Provider area options and press the setup key on the remote control.

Local Provider Area Options

Area 1 You have connected a standard VHF/UHF antenna for receiving your primary

analog and digital terrestrial signals. The ZIP Code entered here will specify what terrestrial program information should appear in the Advanced Program

GuideTM.

Area 2 Area 2 may be a neighboring city or distant terrestrial station you wish to

receive from the same VHF/UHF antenna used in Area 1. The ZIP Code entered here will specify what terrestrial program information should appear

in the Advanced Program GuideTM.

Cable TV You have connected a cable television service. The cable provider entered

here will specify what cable program information should appear in the on-

screen program guide.

System Test

The **SYSTEM TEST** screen will display the signal strength of all of the transponders on the satellite that have been selected on the **Signal Source** pop-up menu. It will also indicate the quality of the signal transfer between the dish antenna and the HD receiver. The **SYSTEM TEST** Menu offers the following options:

Begin Test Starts the receiver test, which provides basic status information about the

receiver. The test may take up to one minute.

Cable Test Tests and displays indicators of all transponder signals from the satellite

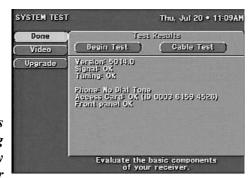
chosen by the **Source** pop-up menu.

Upgrade Checks the status of software upgrades that DIRECTV periodically performs.

Highlighting the *System Test* button on the **INSTALLATION** screen and pressing the seven on the remote control will display the **SYSTEM TEST** screen. Using the d and keys, highlight either the *Begin Test* or *Cable Test* button and press the seven the remote control. After a short period of time, the results of the test will be displayed.

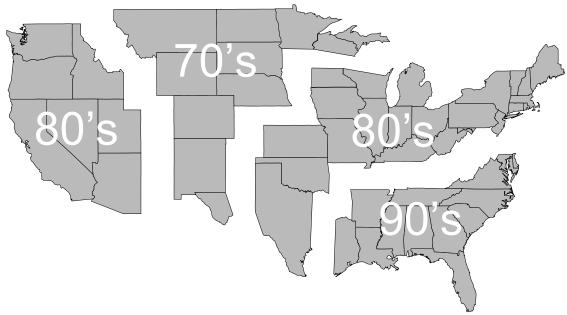
You should perform the cable test for each of the satellites supported by the dish antenna you selected in the **DISH TYPE** screen. If you are setting up your system to receive signals from Satellites B (110°) and C (119°), you will need to change source satellites between each Cable Test.

Note: Not all of the transponders on Satellites B (119°) and C (110°) are currently being used. On Satellite B, for example, you may receive NA (Not Available) indications for several transponders. This is normal.



The SYSTEM TEST screen

When you have received a strong signal from several transponders on each of the satellites you are setting up, you have completed the setup for digital satellite channels. A numeric value for the signal strength ranges from 0 to 99. While your signal strength may vary, refer to the following map to determine the suggested signal strength for your area:



Typical signal strength results. Your actual signal strength may vary.

Check to see if you are receiving the DIRECTV Promotional Channel on Channel 100. If you are receiving that channel, you can now telephone 1-800 DIRECTV to subscribe to DIRECTV Programming®. If you have difficulties receiving a strong signal on one individual satellite, the pointing of the dish antenna will need fine tuning.

Fine Tuning the Pointing of the Dish Antenna

It often takes two people to fine tune the pointing of the dish antenna. One person watches the signal strength indicator on the **INSTALLATION** screen and relays the information to another person who is adjusting the dish antenna. To fine tune the pointing of the dish antenna, you will need to select a satellite on the **Source** pop-up menu. Then select one or more transponders from that satellite by using the **XPONDER** pop-up menu. Once the pointing of the dish antenna has been fine tuned to receive a strong signal from Satellite A (101°) and Satellite B (119°), the pointing of the dish antenna at Satellite C (110°) should be correct.

Selecting Transponders

The **XPONDER** pop-up menu will display the signal strength from individual transponders on each of the satellites. A transponder is a group of circuits on the satellite that transmits the satellite channels. There are numerous transponders on each satellite; however, not all of the transponders will be in use. All of the transponders on Satellite A will provide some signal strength indication. But not all the transponders on Satellites B and C may be fully utilized at this time.

To check the signal strength of individual transponders, first select the satellite using the **Source** pop-up menu. Then highlighting the *Xponder* button on the **INSTALLATION** screen and pressing the select the satellite using the **Source** pop-up menu. Use the

▲ and ▼ buttons to select different transponders. Observe the signal strengths of the different transponders. Adjust the dish antenna to improve the signal strengths. After fine tuning, highlighting the *Done* button and pressing the selection key on the remote control will display the INSTALLATION screen. Highlighting the *Video* button and pressing the selection key or pressing the selection will display the channel last viewed.

Adding Terrestrial Antenna or Cable to Your Satellite Connections

If you connected a terrestrial antenna or local cable TV service to view local analog or digital channels, you need to configure the HD receiver to receive those broadcasts.

Highlighting the *Local Area* button on the **INSTALLATION** screen and pressing the exponential on the remote control will display the **LOCAL AREA** screen shown at the right. Using the ▲ and ▼, highlight either the *Local In 1* button if you connected your terrestrial antenna or cable service to the jack labeled **IN FROM ANT**, or highlight the *Local In 2* button if you connected the jack labeled **SATELLITE IN** and



The LOCAL AREA screen

used a Diplexer to combine your terrestrial antenna cable with the cable from the satellite dish antenna. Then press the key on the remote control to display the **Local In** pop-up menu.

On the **Local In** pop-up menu, use the ▲ and ▼ keys to highlight the buttons for the type of antenna or cable you connected to the HD receiver, and then press the ★ key on the remote control.

Local In Connection Options

The connection options found on the **Local In 1** and **Local In 2** pop-up menus are:

None You are not connected to an antenna

or cable.

Antenna You have connected a standard

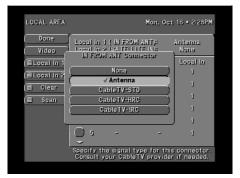
VHF/UHF indoor or outdoor

antenna.

Cable TV (STD) You have connected a cable service

that uses a standard type of cable

signal.



Local In 1 pop-up menu

Cable TV (HRC) You have connected a cable service that uses the HRC type of cable signal.

Cable TV (IRC) You have connected a cable service that uses the IRC type of cable signal.

Note: Consult your cable company to find out what type of cable signal you have.

Note: Local In 1 and Local In 2 must have different input signal types. The receiver does not support the simultaneous connection of two terrestrial antenna signals or two cable signals.

After selecting your Local In connection and pressing the key on the remote control, the **LOCAL AREA** screen will be displayed.

Clear

Remove all the check marked channel numbers from the local Area screen.

Scan Channels

This option will automatically scan through all of the possible channels and place the active channel numbers into the Advanced Program GuideTM grid. NTSC (analog) channels will be listed by their normal one- or two-digit Channel Number. ATSC (digital) channels will be listed by the Channel Number followed by a hyphen and a number other than zero. An example of an ATSC channel would be 23-1. At this time, the program information for local NTSC and ATSC channels that is shown on the Advanced Program GuideTM will simply display "Regular Schedule." To receive accurate program information for these channels, you need to select a local cable provider or enter area ZIP Code on the **DISH SETUP** screen.

Testing the Strength of the Terrestrial Digital Channels

The **INSTALLATION** screen will display the strengths of signals from the terrestrial digital channels. The screen displays a numerical strength indication and a bar graph accompanied by an audible tone to indicate signal strength. The higher the number, the greater the amount of the bar graph occupied, or the faster the beeping tone, the stronger the signal.

You should test the signal strength of each digital channel by "physical" Channel Number, not by "virtual" Channel Number. The "physical" Channel Number is the channel number that the FCC uses to identify the channel frequency, and it is a one-digit or



The INSTALLATION screen

two-digit number. The "virtual" Channel Number is the number that a local broadcast station wishes to use to identify itself. For instance, if the number for your local CBS analog channel is 2 (Channel 2), then that station may use 2-1 as a digital "virtual" Channel Number, even though the "physical" number assigned by the FCC to that channel is 40.

To test the strength of terrestrial digital channel signals, highlighting the *Source* button on the **INSTALLATION** screen and pressing the key on the remote control will display the **SOURCE** pop-up menu. Using the \triangle and \vee keys to highlight the *Local Digital* button on the pop-up menu and pressing the key on the remote control will display the **LOCAL DIGITAL** Signal Strength Screen. Use the \triangle and \vee keys on the remote control to move to the column on the left and use the \triangle and \vee to highlight the *Channel* button. Press the key on the remote control to display the **CHANNEL** pop-up menu.

If you know the "physical" numbers for your local channels, use the number buttons on the remote control to select each channel number, and observe the signal strength. If you do not know these "physical" channel numbers, use the ▲ and ▼ keys on the remote control to change the channel one number at a time. Channels with a signal strength of less than 60 may require a better antenna, adjustment of the antenna angle, or the antenna may be too far away from the signal source.

After fine-tuning, highlighting the *Done* button and pressing the sey on the remote control will display the **INSTALLATION** screen. Highlighting the *Video* button and pressing the key on the remote control will display the channel last viewed. You may also use the *Exit* key on the remote control to exit all menus and return to the last viewed channel.

Terrestrial Antenna or Cable without a Satellite Connection

If you connected a terrestrial antenna or local cable TV service to view local analog or digital channels, you need to configure the HD receiver to receive these broadcasts.

Highlighting the *Local Area* button on the **INSTALLATION** screen and pressing the settle key on the remote control will display the **LOCAL AREA** screen. Using the \triangle and \blacktriangledown keys, highlight either the *Local In 1* button if you connected your terrestrial antenna or cable service to the jack labeled **IN FROM ANT.** Or, highlight the *Local In 2* button if you connected your terrestrial antenna to the jack labeled **SATELLITE IN.** Then press the settle key on the remote control to display the **Local In** pop-up menu.

On the **Local In** pop-up menu, use the ▲ and ▼ keys to highlight the buttons for the type of connection made to the HD receiver, and then press the ★ key on the remote control.

Local In Connection Options

The connection options found on the Local In 1 and Local In 2 pop-up menus are:

None You are not connected to an antenna or cable.

Antenna You have connected a standard VHF/UHF indoor or outdoor antenna.

Cable TV (STD) You have connected a cable service that uses a standard type of cable signal.

Cable TV (HRC) You have connected a cable service that uses the HRC type of cable signal.

Cable TV (IRC) You have connected a cable service that uses the IRC type of cable signal.

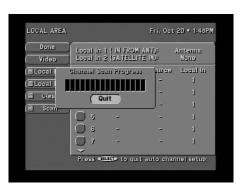
Note: Consult your cable company to find out what type of cable signal you have.

After selecting your **Local In** connection and pressing the key on the remote control, the **LOCAL AREA** screen will be displayed.

Note: Local In 1 and Local In 2 must have different input signal types. The receiver does not support the simultaneous connection of two terrestrial antenna signals or two cable signals.

Scan Channels

This option will automatically scan through all of the possible channel frequencies and place the active channel numbers into the program guide grid. NTSC (analog) channels will be listed by their normal one or two Channel Number. ATSC channels will be listed by their one or two digit main channel number followed by a hyphen and a number of 1 or greater. At this time, the program information for local NTSC and ATSC channels that is shown on the program guide will simply display "Regular Schedule." To receive accurate program information for these channels, you need to connect to a satellite dish and download this information from DIRECTV.



Channel Scan

Selecting the Correct Satellite Dish Type for Terrestrial-only Operation

If you have a terrestrial-only antenna hookup (that is, no satellite dish), you must configure the HD receiver for a dish type of "None" so it will not search for a satellite signal.

Highlighting the Dish Setup button on the INSTALLATION screen and pressing the setup on the remote control will display the DISH SETUP screen.

Highlighting the Dish Type button on the DISH SETUP screen and pressing the ★ key on the remote control will display the DISH TYPE pop-up menu. Using the ★ and ▼ keys, highlight dish type "None" and press the ★ key.

Editing Local Channels

To remove or add local NTSC analog and ATSC digital channels in the channel list, use the ▲ and ▼ keys to highlight the specific channel. Press ★ to remove the checkmark and the channel from the channel list. Press ★ again to add it back.

Time Setup

You can set the current time and day, the current date, the time zone, and whether or not you observe daylight saving time. This option is only available if you have selected NONE as your DISH TYPE.

Use the ▲ and ▼ buttons to move around the **TIME SETUP** screen, then press **SELECT** to select an item, and you can use your remote control to enter numbers.

When you subscribe to DIRECTV, the time will be automatically set and you cannot reset it. You can, however, reset the time zone and whether you observe daylight saving time.



Time Setup screen

Installation Is Now Complete

The installation and testing of the satellite dish antenna and/or terrestrial inputs is now complete. You are ready to enjoy your system.

Watching Local Terrestrial and DIRECTV[®] Programming



Types of Channels

This chapter will reveal many different ways to find programs you want to watch. The first thing you should know is how channels in the DIRECTV Advanced Program GuideTM are arranged.

Analog (NTSC) Channels without Dish Connection

Analog (NTSC) channels received by terrestrial antenna or cable service when a dish antenna has not been connected will be listed by their traditional single- or double-digit Channel Number. The program information will simply state "Regular Schedule."

Analog (NTSC) Channels with Dish Connection

Analog (NTSC) channels received by terrestrial antenna or cable service when a dish antenna has been connected will be listed by their traditional single- or double-digit Channel Number and the station's call letters or network logo. The program information area will display the program name and description if this channel is supported for your zip code area.

Digital (ATSC) Channels without Dish Connection

Digital (ATSC) channels received by a terrestrial antenna or cable service when a dish antenna has not been connected will be listed by a single- or double-digit Channel Number followed by a hyphen and a Sub-channel Number of 1 or greater; for examples: 23-1 or 23-2. The main Channel Number can be either the "physical" Channel Number assigned to the broadcast frequency by the FCC or a "virtual" Channel Number assigned by the broadcast station. The type of number, "physical" or "virtual," depends on information sent by the broadcaster. The channel call letters or network name may also be included by the broadcaster. The program information will simply state "Regular Schedule."

Digital (ATSC) Channels with Dish Connection

Digital (ATSC) channels received by a terrestrial antenna or cable service when a dish antenna has been connected will be listed by a single- or double-digit Channel Number followed by a hyphen and a Sub-channel Number of 1 or greater; for examples: 23-1 or 23-2. The main Channel Number can be either the "physical" Channel Number assigned to the broadcast frequency by the FCC or a "virtual" Channel Number assigned by the broadcast station. The type of number, "physical" or "virtual," depends on information sent by the broadcaster or DIRECTV. The program information area will display the program name and description if this channel is supported for your zip code area.

Local Channels from DIRECTV

Local channels from DIRECTV, when available and subscribed to, will be listed as traditional channel numbers along with the network logo or call letters.

DIRECTV® Programming

DIRECTV programming will be listed with network logo and channel numbers 100 to 9999. For example, the DIRECT TICKETTM movie preview channel is channel 100.

Basic Channel Changing

There are many ways to "surf" (move from channel to channel) through the available programming. You already know two ways to change channels. The first of these is by using the Ω and Ω keys on the remote control. Each key press takes you to the next available channel in the direction that you selected.

The second way is to enter the Channel Number of the desired channel. For example, to go to the DIRECT TICKET movie preview channel, press **900** on the remote control.

Note: if the channel does not change right away, press the see key on the remote control to instruct the HD receiver that you have finished entering channel number digits.

You can enter the number for any channel that you wish.

To select a terrestrial ATSC (digital) channel, enter the main channel number followed by the hyphen key, then the sub-channel number, and then press the key on the remote control.

Channel Banner

Every time you select a channel while you are watching TV, a **Channel Banner**, such as that shown to the right, will be displayed at the top of the screen. You can also display the banner by pressing the key on the remote control or on the front panel of the receiver. This banner also displays channel-related symbols where applicable. These symbols are shown below.

The following icons may be displayed on the channel banner. Subsequent sections will explain how to access these features.



The CHANNEL BANNER screen

Icon	\$	ALT. AUDIO	©,	NEW MAIL	Œ	C	CAN'T TAPE	Φ
Meaning	Pay Per View	Other audio available	Closed caption available	Unread mail	Limits enforced	Limits over- ride	Taping not allowed	Dolby Digital audio available

The Information Banner

Pressing the NFO key on your remote control or the front panel while the **Channel Banner** is displayed will add a description of the current program. This is called the **Information Banner**. Either of these banners will go away after a few seconds, or you can press the NFO key for the second time or the Xey key to clear them.



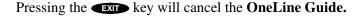
The CHANNEL BANNER with description

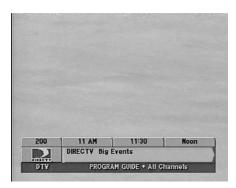
The OneLine™ Guide

If you'd like to know what's on another channel without switching from your current channel, use the **OneLine Guide**. Simply press ▲ or ▼ to begin browsing. You can see the channel call sign and number, logo, and program title(s). When you see something you like, then press

to tune to the channel.

You may also directly enter a channel number to advance the **OneLine Guide** to that channel. The other filter keys, including for movies, for movies, of for sports, and for news, as well as the fav key will also control the content of the **OneLine Guide**.





The OneLine™ Guide

TurboTune™

The **TurboTune** feature provides access to nine of your preferred channels on top of the current video. The **TurboTune** panel is displayed by pressing the remote control settle key while watching the video as long as there are no messages prompting you to press some other purpose. **TurboTune** is also accessible from the front panel settle key. The **TurboTune** panel displays nine channel tags. These channels can be specified via the *TurboTune* button on the **SETUP MENU.** The header area of the panel displays the title of the highlighted channel tag. You can choose one of the nine by moving the highlight over the desired channel and pressing settle.



The TurboTune™ popup

Note: A shortcut to moving the highlight is to press the number on the remote control that corresponds with the on-screen position of the logo for the desired channel. Example, press steep, then • for the upper left channel.

AlphaTune

Using AlphaTune, you can select a channel by spelling the channel's call sign. To use AlphaTune, press the key and the key on the remote control, one after the other. The ALPHA

symbol will appear on the screen. You can now enter numbers and letters (letters are located above the number keys) to spell a channel's call sign. For example, to tune to ESPN, press the key sequence (ACTION) - 2765. All special symbols such as the ampersand (&), forward slash (/), exclamation point (!), and others are found in the **2** key. As soon as the receiver can determine what channel you are seeking, it will tune to it automatically. No additional keys need to be pressed.

If the channel call sign contains fewer than four letters, you may need to press the ELLO key after the letter sequence to indicate that you have entered enough letters. If more than one channel call sign shares the same set of keys (for example, CNN and COM both use 155), one channel will be displayed. If that is not the channel you want, press (CTO) (-), one after the other, and the next channel sharing the same set of keys will appear.

With experience, you will become more familiar with the channel name abbreviations that are used.

Alternate Services

The HD receiver can support alternate audio services. To determine if the services are available for a particular program, look for their icons below the data and time in the **Channel Banner** or on the on-screen guide. To use these services when available, press the ACTION key and new key on the remote control, one after the other. The Alternate Services banner, shown at the right, will appear at the bottom of the screen.

(E Closed Caption) Off

The Alternate Services panel

Audio

Once you have selected the Audio button you can use the ▲ and ▼ keys to step through the audio tracks offered for the current program.

To choose the highlighted language, press SELEC. On occasion an audio track may be offered that is not being broadcast. If this is the case, you will hear either unchanged audio or silence. SAP (Secondary Audio Program) sound is not available on local analog channels received from a terrestrial antenna or cable TV service.

Closed Caption

Closed Caption allows you to change the caption display mode for the program being watched and to turn it on or off. If the closed caption setting in the A/V menu is set to OFF or to a different caption setting, then the selection chosen on this screen is temporary and will be canceled when you change channels. This setting does not affect the closed caption setting of your TV.

If the closed caption setting in the A/V menu is set to off or to a different caption setting, then the selection chosen on this screen is temporary and will be canceled when you change channels.

Advanced Program Guide™

Program Guide

The most powerful feature of the HD receiver is the DIRECTV Advanced Program GuideTM. You may customize the on-screen guide to list only channels or programs of interest to you. Other advanced features available from the on-screen guides, such as scheduling and program information, will help plan your viewing. Continue reading to learn the real power of the HD receiver's on-screen guides or Advanced Program GuideTM. At any time you can press the key to display the current on-screen guide.

This HD receiver offers a variety of on-screen guides. Each guide has its own design to make finding programs of interest an easy task. These guides include the **PROGRAM GUIDE (SM. CELL)**, **PROGRAM GUIDE (LG. CELL)**, and **LOGO GUIDE**.

Each guide can be filtered into smaller channel groupings, as specified in your personalized favorite *Channel Lists*. You can also reduce the displayed listing by specifying a *Theme* of interest, and then narrow the offerings further by specifying a type within the *Theme*. Additional settings, such as *Guide Times* and *Channel List*, may be specified to determine the guide content. A full description of the filtering options can be found later in this chapter.

Note: Most Program Guide features will not be available if the HD Receiver is used without a satellite connection.

PROGRAM GUIDE Screen

Pressing the button on the remote control will display the **PROGRAM GUIDE** screen shown at the right. The guide is available in three formats: Large Cell, Small Cell, and the Logo Guide.



The PROGRAM GUIDE screen

PROGRAM GUIDE Pop-up Menu

Pressing the PROGRAM GUIDE pop-up time will display the PROGRAM GUIDE pop-up menu, shown at right. On the left side are the buttons Main Menu, Video, Guide Style, and Guide Sort. On the right side are the buttons Descriptions, Theme Filters, Channel List, Guide Times, and Watchword. These buttons are explained in the following sections.



The PROGRAM GUIDE pop-up menu

Main Menu

Highlighting the Main Menu button on the pop-up menu and pressing the key on the remote control will display the **MAIN MENU** screen shown and explained on page 7-2.

Video

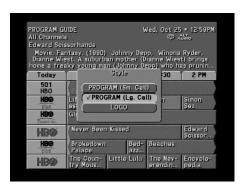
Highlighting the Video button on the pop-up menu and pressing the select key on the remote control will return you to the last program you were viewing.

Choosing the Guide Style

To display the on-screen guides, press the GUDE key. Press the GUDE key again to display or remove the guide pop-up menu.

To choose a guide style, simply highlight the *Guide Style* button and press **SELEO**. A pop-up menu shown at right offering each of the guide styles will be displayed. Highlight your selection and press the **SELEO** key. The guide will be redrawn to display your selection.

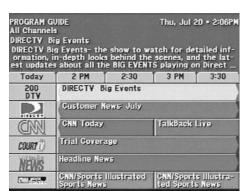
Familiarize yourself with the benefits of each guide style.



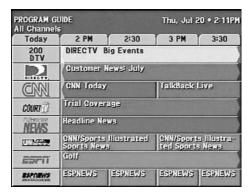
The GUIDE STYLE pop-up menu

PROGRAM GUIDE (Large Cell)

The PROGRAM GUIDE (Large Cell) shown below displays two hours of programming information. Up to eight lines of channel information can be seen on the screen at one time. The number of lines is reduced to six if the program description option is selected.



The LARGE CELL screen with description



The LARGE CELL screen without description

The term "Large Cell" means that there are two lines of text associated with each program title. While this provides more space for the program titles and Channel Tags, it also reduces the number of channels for which information can be seen on the screen at one time.

The largest area of the PROGRAM GUIDE (Large Cell) is made up of cells known as the program grid. Some cells have arrows indicating that the program started at an earlier time, or continues until a later time, than the time displayed on the grid. The length of each grid cell approximates the duration of the associated program.

A time line spanning the width of the guide indicates the show times of the programs being displayed. The list of blocks running down the left-hand side are the "channel tags." Depending on the Guide Sort (Name or Number) option specified in the Guide pop-up menu, the tags may display the channel numbers or call signs. This will dictate whether the channels are listed by channel number or alphabetically by call sign.

To navigate the guide, use the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys on the remote control. You can continue to press the \blacktriangle or \blacktriangledown keys on the remote control to scroll more program information on the screen.

Pressing the key on the remote control while highlighting any title will display the **INFORMATION** screen.

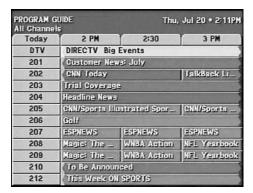
Use the $\S \Omega$ and $\S \Omega$ keys on the remote control to scroll through the guide entries one page at a time.

When the highlight is in the grid, use the ◀ or ▶ keys on the remote control to move the highlight left or right. If you move the highlight on to the Channel Tags in the leftmost column, they will reverse themselves: they will turn from Channel Numbers to Call Signs or from Call Signs to Channel Numbers.

Move the highlight to the right, using the ▶ keys on the remote control, to move the grid area to reveal later time periods. Sometimes after scrolling a few hours ahead, there may be a brief delay while more information is received from the satellite.

PROGRAM GUIDE (Small Cell)

The **PROGRAM GUIDE** (Small Cell) screen shown below displays 1-½ hours of programming information. Up to 12 lines of channel information can be seen on the screen at one time. This number of lines is reduced to 9 if the program description option is selected.



The SMALL CELL screen without description

PROGRAM (All Channe DIRECTY & DIRECTY & ormation, est update	ls	how to watch f	Jul 20 • 2:10PM or detailed inf- es, and the lat- ing on Direct _		
Today	2 PM	2:30	3 PM		
DTV	DIRECTY Big Events				
201	Custoner News: July				
202	CHN Today	TalkBack Li			
203	Trial Coverage				
204	Headline News				
205	CNN/Sports Illustrated Spor CNN/Sports				
206	Golf				
207	ESPNEWS	ESPNEWS	ESPNEWS		
208	Magic: The	WNBA Action	NFL Yearbook		

The SMALL CELL screen with description

The term "Small Cell" means that there is only one line of text associated with each program title. While this can cause the title to be cut short, or abbreviated, it also permits information about more channels to be seen on the screen at one time.

A time line spanning the width of the guide indicates the show times of the programs being displayed. The list of blocks running down the left-hand side are the channel tags. Depending on the Guide Sort option (Name or Number) specified in the GUIDE pop-up menu, the tags may display the channel numbers or call signs. This will dictate whether the channels are listed by channel number or alphabetically by call sign.

To navigate the guide, use the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys on the remote control. You can continue to press the \blacktriangle or \blacktriangledown keys on the remote control to scroll more program information on the screen.

Pressing the key on the remote control while highlighting any title will display the **INFORMATION** screen.

Use the $\S \bullet$ and $\S \bullet$ keys on the remote control to scroll through the guide entries one page at a time.

When the highlight is in the grid, use the ∢ or ▶ keys on the remote control to move the highlight left or right. If you move the highlight on to the Channel Tags in the leftmost column, they will reverse themselves: they will turn from Channel Numbers to Call Signs or from Call Signs to Channel Numbers.

Move the highlight to the right, using the ▶ keys on the remote control, to move the grid area to reveal later time periods. Sometimes after scrolling a few hours ahead, there may be a brief delay while more information is received from the satellite.

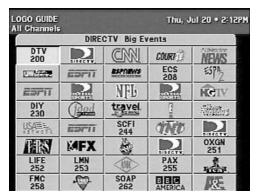
LOGO GUIDE

This guide style offers the greatest number of channel identifiers displayed simultaneously. It displays up to 40 network logos at one time. This number of logos is reduced to 30 if the program description option is selected.

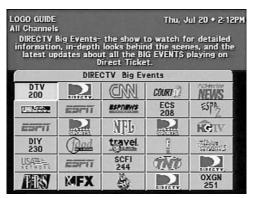
The title of the program currently being broadcast on the highlighted channel appears in the header area immediately above the logo grid. Only information about current programming is available from the LOGO GUIDE.

To navigate the guide, use the \triangle , \vee , \triangleleft , and \triangleright keys. You can continue to press the \triangle or \vee keys to scroll through the guide entries a full page at a time.

Pressing on any title will direct you to the **INFORMATION** screen. Use the A and A keys to scroll through the guide entries a full page at a time.



The LOGO GUIDE without description



The LOGO GUIDE with description

Descriptions

One guide option is to automatically display descriptions for highlighted program titles. The descriptions usually provide information such as actors' names, a program synopsis, and additional rating information. Sometimes the description may be only a message describing what type of program is highlighted, such as "Current News."

This option is chosen via the *Descriptions* button on the guide pop-up menu. Displaying the extra information reduces the number of channels or titles that can be displayed at one time.

Remember that you can always access program descriptions by pressing the **NFO** key whether or not the *Descriptions* button is selected.

Filtering the Guides

Searching through hundreds of channels can be overwhelming. The HD receiver will help you find what you are looking for. By pressing the key while already in a guide, a pop-up menu will display, providing the filtering tools and ways to access other guide styles.

By combining each of these filter options, you can quickly narrow down 225+ channels to those that match your viewing interests. Once you exit to view your program, all filters except for the favorite list will reset to an unfiltered condition.

You should also be aware that some guide styles do not provide access to certain filter options. The unavailable filters will not appear in the Guide Menu.

Theme Filters

When the Theme Filters button on the **PROGRAM GUIDE** pop-up menu is highlighted and the button is pressed, a **Theme Filters** pop-up menu, shown on the right, will be displayed listing all of the categories of available programs such as Movies, Sports, Interests, Lifestyles, News, and other categories. You can scroll up or down through this list by using ▲ and ▼ on the remote control.

Activating a category displays a subcategory pop-up menu, which lists the subcategories within the selected category. As one example, within the Movies category are Action/Adventure, Comedy, Current Affairs, Drama, Fantasy, Horror, Music, and Mystery/Crime.

Pressing the All button clears the choices.

Popular categories can be quickly selected from your remote control by pressing remote, followed by a number key. You will see labels on the remote control for filtering the guide to movies, sports, news, and all. Press for movies, remove for sports, or removed for news, and the guide will filter accordingly. Pressing the key sequence a second time or pressing remove will restore the guide to show all themes.

Channel List

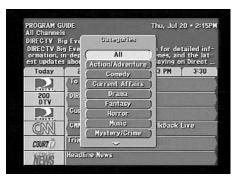
The Lists pop-up menu enables you to filter the guide to display only channels from the selected list. In addition to *All Channels*, you can choose one of your own defined lists. See the "Fav. Lists" subsection of Chapter 7, "HD Receiver's Menu System," to learn how to set your favorite lists.

The channels selected on the Family List are the only channels available when the HD Receiver has been locked.

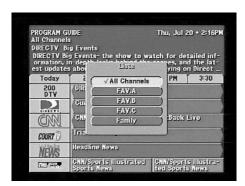
You can use the key to cycle through the lists at any time in the on-screen guide without using the popup menu.



The Theme Filters pop-up menu



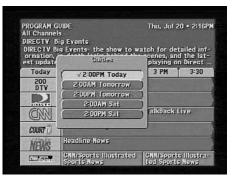
The Movies Subcategory pop-up menu



The Lists pop-up menu

Guide Times

The **Guides** pop-up menu provides easy access to future programming information. Simply select one of the listed times. After a few seconds, the selected guide will appear.



The Guide Times pop-up menu

WATCHWORD™

The **WATCHWORD** popup is used to specify up to eight different words that can be used to identify programming of interest to you. The HD receiver will search the program titles and descriptions in the guide for programs that contain matching words. These matches will be displayed when you select the RESTART button. Some matches will be displayed as soon as they are found, and others will be added as the search continues in the background.



The WATCHWORD™ setup screen

WATCHWORD™ Entry

Highlighting one of the eight choices and pressing will initiate a pop-up keyboard where you can define a search word. If "CAGNEY" and "ALIEN" were specified, the "CAGNEY" search word might find movies in which James Cagney performed, as well as the TV series "Cagney and Lacey." The "ALIEN" search word might find the movie "Aliens," as well as any program which includes the word "alien" in the description. Partial words work as well.

Entering the desired words is easy using the pop-up keyboard. You can highlight the desired letter using the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys. Press \blacksquare to enter the letter. Once the word is entered, choose OK.



The WATCHWORD™ Entry pop-up menu

General On-Screen Guide Features

While there are different ways the guides can appear, there are some things they have in common.

The guide name will always appear in the upper left corner. It may be something simple like "PROGRAM GUIDE." If you have filtered the guide, it could be more descriptive such as "COMEDY MOVIES GUIDE." (See the "Filtering the Guides" subsection later in this chapter.)

- Immediately below the guide title are indicators showing how the guide is further filtered. The label to the left specifies the current class filter setting. To the right you will see the current channel list.
- In the upper right corner of your screen the current day, date, and time are displayed.
- Just below the time you may see small icons indicating the status of the system or details
 about the currently highlighted program title. They are the same icons that appear in the
 Channel Banner.
- The primary body of the guide screen displays channels or program titles. You can press on a currently airing program to tune to it. Pressing NFO will take you to the INFORMATION screen described later in this chapter.
- If a program title cannot entirely fit in the space provided, ellipses (...) indicate that a portion of the title is missing.

The INFORMATION Screen

To obtain more information about a particular program while a **PROGRAM GUIDE** screen is displayed, and you are highlighting a Program on the screen, press the button on the remote control to display the **INFORMATION** screen shown here.

If you are highlighting a Channel Tag in the channel column of the **PROGRAM GUIDE** screen, press the button on the remote control to display a modified **INFORMATION** screen. Information about the Channel Tag and Call Sign will be displayed.



The INFORMATION screen

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **INFORMATION** screen and return to the **PROGRAM GUIDE** screen or channel offering a purchase.

Show Times

Highlighting the Show Times button on the **INFORMATION** screen and pressing the key on the remote control will display the **SHOW TIMES** screen, shown here, which displays the upcoming show times for the program you selected.

SHOW TIMES Screen

On the right side of the **SHOW TIMES** screen will appear the Program Title of the program highlighted in the **PROGRAM GUIDE** screen. On the left-hand side of this column will appear the Channel Identifiers and Call Signs of the channels offering that show. On the



The SHOW TIMES screen

right-hand side of the column will appear a Program Show Date and Time.

On the left are the buttons Done, Video, and Guides explained below.

Done

Highlighting the Done button on the screen and pressing the key on the remote control will cause an exit from the **SHOW TIMES** screen and a return to the **INFORMATION** screen.

Video

Highlighting the Video button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Guides

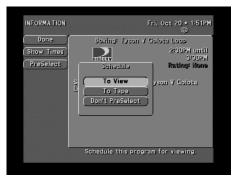
Highlighting the Guides button on the **SHOW TIMES** screen and pressing the selection key on the remote control will initiate a drop-down menu offering easy access to future programming information. Simply select one of the listed times. After a few seconds, the selected guide will appear.

PreSelect™

Use PreSelect to plan your evening or weekend viewing. The PreSelect feature will initiate a drop-down menu offering your PreSelect feature options.

To View

To View will mark the selected program to be automatically tuned in when it airs. At the right time, if the HD receiver is off, it will turn on and tune to the appropriate channel. Your selected programs will be identified on the on-screen guide with a check mark (✓) before the program title.



The PreSelect™ screen

To Tape

To Tape is very similar to To View; however, if you

have connected your VCR to the HD receiver via the IR cable and have properly set the VCR code from the Setup Menu, the chosen program will be recorded at the correct time. If the HD receiver turned itself on to record the program, it will also remember to turn itself back off after the program ends. Programs you have scheduled for taping will be identified with a videotape icon () before the program title in the on-screen guide. For unattended recording using this feature, refer to page 6-11.

Note: Only the PreSelect To View option appears when the unattended recording capability is not available or when a program is not authorized for taping. In this case, the HD receiver can still be scheduled to tune to it when it comes on.

Don't PreSelect

Once a program has been scheduled for viewing, previewing, or taping, you have the option of canceling the action. Schedules can also be canceled directly from the on-screen guide by highlighting a scheduled program and pressing the key.

PreSelecting Programs from the Advanced Program Guide™

You can perform the *PreSelect* capability from within the program on-screen guides. Simply highlight the program you want to schedule and press the key. Each press of the key cycles through the available options.

PreSelecting Programs for Taping

You can utilize this feature commonly known as StarSight[®] One-Touch Record (OTR). Programs that have been scheduled to be taped will be identified with a videotape icon () before the program title on the on-screen guide. If you do not want to have the PreSelected program



recorded, press the setting to be automatically tuned to for viewing.

When using the *To Tape* feature the following steps must be completed for the HD receiver to perform unattended recording:

Note: Only the OUT TO TV or Audio/Video/or S-video outputs of the HD receiver can be recorded with a standard VHS VCR. You cannot watch the Y, P_r , or P_b outputs (1080i format) video while recording, because the HD receiver will only output 1080i format \underline{or} standard 480i format, but not both simultaneously. When a program is preselected for taping, the output of the HD receiver should manually be switched by the user to SD (standard 480i) when recording starts.

- Attach the VCR Control cable. (See Chapter 2, "Setting Up Your Satellite Receiver.")
- Use the VCR SETUP screen. (See Chapter 7, "HD Receiver's Menu System.")
- Switch the HD receiver to SD (480i) output mode.
- Set your VCR to match the output of the HD receiver. This could be either RF (channel 3 or 4) or A/V (audio left and right with video or S-video).
- Insert a recordable videotape of sufficient length in the VCR.
- Leave the VCR turned ON.

PreSelecting Programs for Viewing

Programs that are PreSelected for viewing will be identified on the on-screen guide with a check mark () before the program title. An additional press of the key will return the status to not scheduled.

Canceling PreSelected Programs

To cancel a PreSelected program, find the upcoming program you wish to cancel and press the key until the check mark (\checkmark) or videotape icon (\Box) is no longer shown.

If the program is currently airing, you will need to delete the event from the SCHEDULER screen accessed from the MAIN MENU.

HD Receiver's Menu System



The HD receiver offers much more than fantastic audio and video. The Main Menu is the primary location where you can access system management functions. From the MAIN MENU you can access the on-screen guide, customize system features, read DIRECTV messages, lock and unlock your system, and more.

Most of the menus and screens described in this chapter can be accessed from the front panel. When number entry is requested, the ▲ and ▼ keys will cycle through the possible digits. If the current channel is locked, pressing the ★ key will display the LOCK OVERRIDE pop-up screen panel where you may enter your passcode to unlock the channel.

Menu Overview

HD receiver menus have been designed to provide a logical and convenient way to access system features and settings. The basic screen layout of each menu is divided into several distinct areas. They are as follows:

- Title, date, and time—Across the top of the screen you will see the title of the current menu on the left-hand edge and the date and time on the right-hand edge.
- Advisory messages—Along the bottom of the screen you will see an area that is dedicated to providing a brief explanation of the currently highlighted on-screen button.
- Places to go—Down the left-hand edge of the screen are a variety of buttons. These buttons usually navigate you to different screens. The top two buttons on the list are always *Done* and *Video*. The *Done* button will take you back one level. The *Video* button will return you to the most recently watched channel. This button is provided in case you are using the HD receiver's front panel and don't have access to the remote control. If the remote control is handy, pressing the very key is an easier way to return to your program. The information banner will appear briefly or you can erase it quickly by pressing the very key again.
- Things to do—This largest portion of the screen is dedicated to topics associated with the current menu. Contents usually include buttons for changing settings or checking the status of some feature. You will also see information regarding the current menu.

Some buttons contain small icons inside them, indicating their function:

- The current setting will cycle through the possible settings with each press of the key.
- A list of options will be offered. This list appears in what is referred to as a "Pop-up Menu."
- A series of boxes will appear to specify numbers and/or letters for the particular feature.

Main Menu

From the **MAIN MENU** you can access the on-screen guide, customize your system features, check incoming mail, lock and unlock your system, and more.

There are two ways to get to the MAIN MENU. First, you can press the GUDDE keys on the remote control. Or when one of the on-screen program guides is displayed, you can press the GUDDE key to reveal the pop-up GUIDE MENU, then select the *Main Menu* button.



The MAIN MENU

Guide

The *Guide* button takes you from the **MAIN MENU** to the on-screen guide. You can use the guide to display what's available at a given time. The guide also offers a pop-up menu of buttons that are useful for filtering the guide or changing the style of the on-screen guide. For more information, refer to Chapter 6, "Advanced Program Guide."

A quicker way to access the on-screen guide from the **MAIN MENU** or any other menu is by pressing the GUDD key, either on the remote control or on the HD receiver's front panel.

The remaining buttons provide access to those features described in greater detail in this chapter.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Setup Menu

On the left are the buttons Done, Video, Preference, A/V Setup, Limits, Chan. Lists (for Channel Lists), TurboTune, Installation, and VCR Setup, which are explained below.

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **SETUP MENU** screen and a return to the **MAIN MENU** screen.



The SETUP MENU

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Preferences

Highlighting the *Preferences* button on the **SETUP MENU** screen and pressing the **SEEGO** key on the remote control will display the **PREFERENCES** screen. By changing the various options on the **PREFERENCES** screen and its companion, the **ADVANCED PREFERENCES** screen, you can customize operation of the HD receiver as many times as you wish.

Done

Highlighting the *Done* button on the **PREFERENCES** screen and pressing the series key on the remote control causes an exit from the **PREFERENCES** screen and a return to the **SETUP MENU** screen.



The PREFERENCES screen

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Advanced

Highlighting the *Advanced* button on the **PREFERENCES** screen and pressing the enteron the remote control will display the **ADVANCED PREFERENCES** screen. This screen contains additional preference options, which are described under "Advanced Preferences" on the next page.

Preference Options

The right hand panel shows a list of Option buttons and current settings that relate to the look of menus and guides. These are Chan. (Channel) Tags, Scheme, Filters, and Translucency.

Channel Tags

With the **Chan. Tags** (Channel Tags) option, you can select the Channel Tags that are displayed on the **PROGRAM GUIDE screens.** You may select Name/Number Channel Identifiers (numbers or Call Signs such as ABC, for example) or Network Logos.

Note: If you sort the channels by Name, using the $\S 0$ and $\S 0$ keys to step through the channels will appear to change channels in a random order when, in fact, the channels are sorted and tuned to in alphabetical order.

Scheme

The **SCHEME** pop-up menu enables you to select a color scheme for the on-screen guides and menus.

Highlighting the *Scheme* button on the screen and pressing the select key on the remote control will display the **SCHEME** pop-up menu to select a color scheme for the guide screens and menus.

Filters

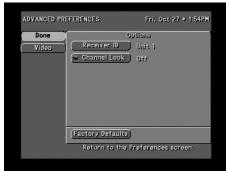
The default setting for *Filters* is "Temporary." With a setting of "Temporary," each time you leave the on-screen guide, all filters other than the Channel List will reset to "All Categories." If you change the *Filters* setting to "Persistent," any filtering that you should happen to do will survive exiting the on-screen guide and be in effect for the **OneLine Guide**TM and even later when returning to the on-screen guide at a later time.

Translucency

The **TRANSLUCENCY** option allows you to set the degree of translucency in menus and screens that overlay video.

Advanced Preferences

Highlighting the *Advanced* button on the **PREFERENCES** screen and pressing the select key on the remote control will display the **ADVANCED PREFERENCES** screen shown at right. This screen contains additional preferences that are less likely to require changes once they are selected. Most users will not make any changes to this screen. This screen also provides a means to reset all preference settings to the factory default settings.



The ADVANCED PREFERENCES screen

Done

Highlighting the *Done* button on the screen and pressing the selection key on the remote control causes an exit from the **ADVANCED PREFERENCES** screen and a return to the **PREFERENCES** screen.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Advanced Preference Options

On the right of the **ADVANCED PREFERENCES** screen is a panel of option buttons and their related current settings: Receiver ID, Channel Lock, and Factory Defaults, which are explained below.

Receiver ID

Someday, you may choose to get a second HD receiver. If both receivers are in the same home or if you are using an RF remote control or a remote control extender, you may experience interference between signals. To avoid this "cross talk," simply highlight the *Receiver ID* button and press on the remote control to be used for that specific HD receiver. Remember to set your remote control to the desired code first. For information regarding changing the remote control code, see Chapter 8, "Changing the Remote Control Address to Operate Other HD Receivers."

Channel Lock

The *Channel Lock* setting provides a way for you to set your HD receiver to permanently stay on a specified channel. When the setting is anything other than "- - - -" the HD receiver will always power up on that channel and will ignore any attempts to change the channel. To allow channel changing to function again, set this option to "Off."

Factory Defaults

To reset the HD receiver preferences, select the *Factory Defaults* button on the **ADVANCED PREFERENCES** screen.

Audio/Video Setup

Highlighting the A/V Setup button on the **SETUP MENU** screen and pressing the **SETUP** key on the remote control will display the **AUDIO/VIDEO SETUP** screen.

Note: The gray bars that occur in the side panels mode can increase the chance of uneven picture tube aging. Because of this, it is recommended that you use the full or cropped mode instead.

Audio

The AUDIO option on the **Audio/Video Setup** menu enables you to specify the language track for programs you watch. While English is the default language, you may choose an alternate language. If your chosen language is available for the program, you will hear that language. Otherwise, you will hear the primary language in which the program was produced.



AUDIO/VIDEO SETUP screen

Dolby Digital

The Dolby Digital option lets you turn the Dolby

Digital output On or Off. This setting affects the optical DIGITAL AUDIO OUT port on the back of the HD receiver. When set to On, Dolby Digital audio is sent to your Dolby Digital AV receiver for decoding. If the program does not have Dolby Digital audio, then standard PCM digital audio is sent. When set to Off, the digital audio is always PCM digital audio. This setting is used with AV receivers that decode PCM digital audio but not Dolby Digital audio.

A Be

WARNING

Before using the DIGITAL AUDIO OUT connector with a standard PCM (i.e., not Digital Dolby) digital bitstream decoder/receiver, set the Dolby Digital

option on the Advanced Preferences screen to "Off." Failure to do this could result in a high level noise and could be harmful to your ears and equipment.

Closed Caption

The Closed Caption option allows you to set the default mode and caption channel to be viewed on-screen when first tuning to a program.

When OFF is selected, captions will not be displayed.

If CC1 or CC2 is selected, then the HD receiver will decode and display the appropriate closed captioning channel, if present.

TV Resolution

The TV Resolution menu option lets you set the output format of the HD receiver. By default the TV Resolution is set to 1080i for a High Definition monitor or television. If you have a Standard Definition monitor or television, you should choose 480i. If you change this setting, the onscreen menu will disappear from view. You need to change the TV's input to match the new output setting. Switching between HD and SD can also be done by using the remote control. Press the Asy key once, then press the Asy key, followed by the Appur key.

Note: The HD receiver will output HD video through the Component Video (Y, P_r, P_b) connectors or SD video through the OUT TO TV/VIDEO/S-VIDEO connectors, but it will not output both formats simultaneously. Please refer to Chapter 2 "Setting Up Your HD Receiver" for instructions on connecting your type of monitor or television.

Screen Ratio

The Screen Ratio menu option lets you specify the aspect ratio of your monitor or television so that video programming can be properly displayed. Select 4:3 (standard) or 16:9 (widescreen).

Image Shape

This button allows you to select the image of the video displayed on your television. These display options can also be accessed from the remote control by pressing the key sequence 3.

If you are using a 4:3 (standard) television or monitor and receiving a 16:9 (wide-screen) image, which is wider than the screen, you can choose between one of the following.

Full

In the full mode, 16:9 images will be enlarged vertically and compress horizontally to fill the screen with the entire image. No image content is lost; however, images will appear tall and more slender than normal.

Note: To minimize uneven picture tube aging, the cropped or full mode is recommended.

Cropped

In the cropped mode, the 16:9 image is enlarged to fill the screen vertically and centered horizontally. Some image content is lost at the left and right sides of the 16:9 image.

Note: To minimize the chance of uneven picture tube aging, the cropped or full mode is recommended.

Letterbox

In letterbox mode, the 16:9 image fills the screen horizontally and is centered vertically, with gray bars above and below the image. You will see gray bars above and below the

16:9 image. No image content is lost, but the horizontal and vertical resolution is reduced.

Note: If you are using a 4:3 television or monitor and receiving a 4:3 image, the Image Shape setting will have no effect.

If you are using a 16:9 television or monitor and receiving a 4:3 image, which is narrower than the screen, you can choose between two different display methods:

Full

In the full mode, 4:3 images will be compressed vertically and enlarged horizontally to fill the screen with the entire image. No image content is lost; however, images will appear short and wider than normal.

Note: To minimize the chance of uneven picture tube aging, the cropped or full mode is recommended.

Cropped

The 4:3 image is enlarged to fill the screen horizontally and centered vertically. Some image content is lost at the top and bottom of the 4:3 image.

Note: To minimize uneven picture tube aging, the cropped mode is recommended.

Side Panels

The 4:3 image fills the screen vertically and is centered horizontally. You will see gray bars on the left and right of the 4:3 image. No image content is lost, but the horizontal resolution is reduced.

Note: If you are using a 16:9 television or monitor and receiving a 16:9 image, the Image Shape setting will have no effect.

Limits

Highlighting the *Limits* button on the **SETUP** screen and pressing the **SEEG** key on the remote control will display the **LIMITS** screen shown. The **LIMITS** screen provides settings to help you control the viewing restrictions on satellite programming. These limits, when accompanied by the **CHANNEL LISTS**, put TV-watching control in your hands.

Note: The TV Timer, Rating, and Spending Limits are in effect only when the HD receiver is locked. Locking and unlocking the HD receiver is explained later in this chapter.



The LIMITS screen

On the left of the **LIMITS** screen are buttons for Done, Video, TV Timer, Rating Help, and Max Spending, which are explained below.

Done

Highlighting the *Done* button on the screen and pressing the series key on the remote control will cause an exit from the **LIMITS** screen and a return to the **SETUP** screen.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

TV Timer

Highlighting the *TV Timer* button on the **LIMITS** screen and pressing the key on the remote control will display the **TV TIMER** screen.

From the **TV TIMER** screen you can specify the hours that satellite programming can be viewed on your receiver, which is done by highlighting each of the days you wish to control and pressing **SELEGO**. After selecting a day of the week, you can set an acceptable start and end viewing period *or* a total viewing duration.

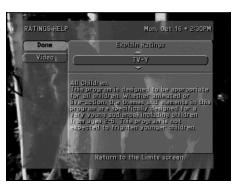


The TV TIMER screen

Rating Help

Program ratings indicate the suitability of a program's content for a given audience. For families with younger children, a lower rating limit may be desirable. Other families may choose to allow viewing of more sophisticated programming.

Highlight the *Rating Help* button and press to display the **RATING HELP** pop-up menu. Use the ▲ and ▼ keys to view information about the agebased rating and content themes listed in the menu. The table on the next page provides more detail about the ratings.



The RATING HELP pop-up panel

Rating	Description
TV-MA	Mature Audience Only. Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude , indecent language (L), explicit sexual activity (S), or graphic violence (V).
TV-14	Parents Strongly Cautioned. Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong, coarse language (L), intense sexual situations (S), or intense violence (V).
TV-PG	Parental Guidance Suggested. Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

Rating	Description	
TV-G	General Audience. Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D), no strong language (L) or sexual situations (S), and little or no violence (V).	
TV-Y7	Directed to Children seven years and older. Designed for children ages seven and above. More appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of seven.	
TV-Y	All Children. Themes and elements in this program are designed for a young audience, including children from ages 2–6. Not expected to frighten younger children.	
MPAA	G: General audiences. All ages admitted.	
	PG: Parental guidance suggested. Some material may not be suitable for children.	
	PG-13: Parents strongly cautioned. Some material may be inappropriate for children under 13.	
	R: Restricted. Under 17 requires accompanying parent or adult guardian.	
	NC-17: No one 17 and under admitted.	

Max Spending

Pay per view access enables you to purchase special, limited-broadcast programs such as sporting events and movies. You can set the maximum purchase price on a per-event basis. To change the displayed limit, highlight the *Max Spending* button and press to display the **SPENDING LIMIT** pop-up panel. When the HD receiver is locked, the passcode will be needed to change the ratings limit. Refer to the subsection "Lock/Unlock" later in this chapter for information on setting the passcode.

Use the number keys on the remote control to set the limit or use the ▲ and ▼ keys to increase or decrease each digit. Use the ◄ and ▶ keys to highlight the digit that you want to change. The maximum limit is \$655 per event.



The MAX SPENDING pop-up panel

Highlight *OK* and press **SELECT** to confirm the entered amount.

Channel Lists

Highlighting the *Chan. Lists* button on the **SETUP** screen and pressing the **SEEG** key on the remote control displays the **CHANNEL LISTS** screen shown.

Channel Lists are provided to help you organize the hundreds of available channels into groupings that suit the needs of your household. Each list can contain as many or as few channels as you would like. You can customize these groupings in a variety of ways. For example, *Fav. A* could be Dad's favorite channels, *Fav. B* could be Mom's favorites, *Fav. C* could be the kids' channels, and *Family* could be all



The CHANNEL LISTS setup screen

channels that Mom and Dad have deemed appropriate for the entire family. Each of the lists, with the exception of *Family*, can be renamed.

Note: Remember that when the HD receiver is locked, only channels selected in the Family list can be viewed. This means that even though a channel appears on the Fav. A, Fav. B, Fav. C, or All Channels list, the selected channel must also be on the Family list in order to view it.

Note: For the Family list limit to be in force, the HD receiver must be locked.

On the left of the **CHANNEL LISTS** screen are buttons for Done, Video, AutoSet, Rename, Clear, and Set, which are explained below:

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **CHANNEL LISTS** screen and a return to the **SETUP** screen.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

AutoSet

AutoSet is designed to help in the initial programming of your channel lists. When you select the AutoSet button, a pop-up menu appears showing each of the channel lists. Highlight and select a channel list to be programmed. Once selected, the AutoSet Progress pop-up status panel appears. It will take several minutes for the HD receiver to scan through all channels and determine which ones you are authorized to receive. The results of this scan will be stored in the designated channel list.

Note: The AutoSet Channel Scanning Process can inadvertently exclude some channels (such as the MUSIC CHOICE channels) or include some Pay Per View channels. You can manually edit your channel lists after AutoSet is done (see "Tag Boxes" below).

Rename

When you highlight the *Rename* button and press the key, a Rename List pop-up menu appears. You can choose any of the first three lists to be renamed. The *All* and *Family* lists cannot

be renamed. Once you have selected a list, a Rename List entry keyboard pop-up panel appears. You can highlight the desired letter using the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys. Press selection to enter the letter. When you have finished, choose OK.

Clear

You may decide to remove all channels from a particular list later on. Selecting *Clear* will allow you to clear all channels from a chosen list. You may then add channels back in.

Set

If you decide to include all channels in a particular list, selecting *Set* will allow you to specify the list. You may then remove channels from this list, if you so choose (see "Tag Boxes" below).

Tag Boxes

The four columns of small boxes on the right hand side of the **CHANNEL LISTS** screen are the Tag Boxes. The first three columns are the lists traditionally known as *Fav. A, Fav. B*, and *Fav. C*. The fourth column is the *Family* list.

In the **CHANNEL LISTS** screen, use the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys to highlight the button that corresponds to the channel number and list that you wish to change. Press the selection key to add or remove the check mark, which indicates that the channel in that row is included in the list shown at the top of the column.

To help you decide whether to include or exclude a certain channel, the title of the currently airing program for that channel will appear at the top of the screen.

Locking and unlocking the HD receiver is described later in this chapter. When the system is locked, the passcode will be needed to modify the settings of the FAMILY channel list to use the other channel lists.

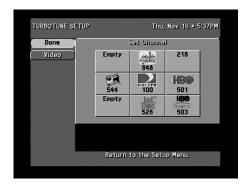
TurboTune[™]

Highlighting the *TurboTune* button on the **SETUP** screen and pressing the key on the remote control displays the **TURBO TUNE SETUP** screen shown at the right.

On the left are buttons for Done and Video, which are explained below.

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **TURBO TUNE SETUP** screen and a return to the **SETUP** screen.



The TURBOTUNE setup screen

Video

Highlighting the *Video* button on the screen and pressing the settor key on the remote control will return you to the last program you were viewing.

The **TURBO TUNE SETUP** screen is used to specify which nine channels will appear in the **TurboTune** pop-up panel that displays when **SEEGO** is pressed.

Set Channel

Using the \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright keys, highlight one of the nine channel boxes. You can enter the desired channel using the number keys on the remote control or by using the $\P \bullet$ and $\P \bullet$ keys. Pressing while highlighting one of the channel boxes will also initiate a pop-up panel that will allow you to set the channel using the \blacktriangle and \blacktriangledown keys on the remote control or the HD receiver's front panel.

Installation

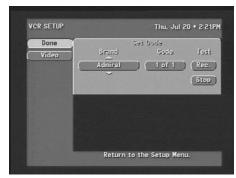
Highlighting the *Installation* button on the **SETUP** screen takes you to the **INSTALLATION** screen, which contains utilities to facilitate installation of your satellite dish antenna. You can also evaluate your system's signal strength via the **INSTALLATION** screen. This screen was discussed in detail in Chapter 4, "Setting Up the Satellite Dish Antenna and Terrestrial Inputs."

VCR Setup

The VCR SETUP screen provides access to the settings that will allow the HD receiver to communicate the record and stop commands to your VCR.

Brand

Using the ▲ and ▼ keys, search through the various brands of VCRs that are supported. Related brands that share the same control codes may be suggested. You may want to experiment with these if you are having difficulty finding a functioning code under your VCR's own brand name.



The VCR SETUP screen

Code

More than one code may be assigned to your brand of VCR. Try each of the codes by using the \blacktriangle and \blacktriangledown keys to step through each code. Alternate between this procedure and testing the code.

Test (Record/Stop)

The testing function allows you to verify that the specified code will control your VCR. To run the test, the VCR control cable must be properly attached (see "Setting Up Your HD Receiver" in Chapter 2), a recordable tape must be in the VCR, and the VCR must be turned on.

Use the button on the front panel of the HD receiver (instead of the remote control) when testing the codes, because signals coming from the remote control at the same time as signals coming from the VCR control cable could give unreliable test results.

Be sure to test both the *Record* and the *Stop* commands, which are necessary for successful taping capability. If either *Record* or *Stop* fails to function, try other codes associated with your VCR brand. If you are unsuccessful in the test process after trying all available codes, recheck your VCR control cable connections and IR emitter placement.

When a scheduled recording begins or a command to the HD receiver to start a recording, the user must manually switch to the SD outputs (480i). The HD output (1080i) will turn off. To view the picture during the recording time, change the input on your TV to the SD input.

Scheduler

Highlighting the *Scheduler* button on the **MAIN MENU** screen and pressing the **SCHEDULER** screen shown.

On the upper right is displayed the current Day, Date, and Time.

On the left are the buttons for Done and Video explained immediately below:



The SCHEDULER screen

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **SCHEDULER** screen and a return to the **MAIN MENU** screen.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Event Scheduling Options

On the right is the **Events** panel, which displays up to seven rows of events. The column headings on this panel are Do, Chan. (Channel), Start, Dur. (Duration), and Freq. (Frequency). The Do column permits two entries: a Check Mark () for Viewing only and a Videotape symbol () for Taping. The Chan. (Channel) column permits an entry of a desired channel. The Start column permits entry of the Start Time, in hours and minutes, of a scheduled event. The Dur. (Duration) column permits entry of the duration, in hours and minutes, of the event. The Freq. (Frequency) column displays when or how often the event occurs: *Today, Tomorrow, Every Mon (Tue* and so on), *Everyday, Mon–Fri*, or "/" to specify an exact date.

When using the $PreSelect^{TM}$ To Tape feature, the following steps must be completed for the HD receiver to perform unattended recording:

- Attach the VCR control cable as described in Chapter 2.
- Use the **VCR SETUP** utility as described earlier in this chapter.
- Switch the HD receiver to SD (480i) output mode.
- Set your VCR to match the output of the HD receiver, which could be either RF (channel 3 or 4) or A/V (audio left and right with video or S-video).
- Insert a recordable videotape of sufficient length in the VCR.
- Leave the VCR turned ON.

Editing an Event

The "Events" portion of the **SCHEDULER** screen displays up to seven scheduled events at one time. If more than seven events are already scheduled, you can use either the \blacktriangledown key to scroll down, or the $\P \blacksquare$ key to view the additional events. A small arrow at the top or bottom of the event list indicates that there are additional events.

Once you have highlighted the event you wish to set or edit, press steet. You will be prompted with a pop-up menu. If you choose the scheduling option, the HD receiver will turn on (if

necessary) and tune to the specified channel at the correct date and time. If the *Schedule to Tape* option is provided and is chosen, and you have successfully completed the VCR setup procedure, the HD receiver will allow recording of the event. To remove a scheduled event, select the *Delete* option. If you inadvertently pressed select, select Cancel.

After choosing a scheduling option, a pop-up panel appears for channel selection. You can enter the desired channel using either the number keys on the remote control or the \blacktriangle and \blacktriangledown or $\P \square$ and $\P \square$ keys.

After specifying a channel, press the select *OK* when you are ready to continue.

Next, enter a *Start* time using either the number keys on the remote control or the \triangle and ∇ keys. Press \triangleright to continue.

You then must specify whether the time you entered is AM or PM (or N for noon, or M for midnight if the time specified is 12:00) using the \triangle and \vee keys. To continue, press \triangleright .

Using the same procedure as setting the start time, set the program Duration as hours and minutes. As before, use \blacktriangleright to advance to the Frequency column.

The Frequency column is very versatile. Using the \blacktriangle and \blacktriangledown keys, you can specify when, or how often, the event occurs. Your choices are: Today, Tomorrow, Every Mon, Every Tue, Every Wed, Every Thu, Every Fri, Every Sat, Every Sun, Everyday, Mon–Fri, or "/" to specify an exact date. If you are specifying a date, enter the numbers using the remote control in month/day format. The year will be set automatically. Events can be scheduled up to eleven months in advance. Once you have set the Frequency, advance using the \blacktriangleright key.

Review your settings and choose *OK*. Otherwise, choose *Cancel* to delete the edits made to this event.

Check Mail

The CHECK MAIL feature of the HD receiver enables DIRECTV to notify you about important information, upcoming special events, offers, and other promotional programming.

When new messages are received, a "new mail" icon appears at the top of all menu screens. This indicator will remain on the menus until you have read the new message.

When you highlight the *Check Mail* button on the **MAIN MENU** screen, the advisory message at the bottom of the screen indicates if there are any messages to read. If there are, you can press to access the **CHECK MAIL** screen.



The CHECK MAIL screen

Message

The *Message* button will allow you to cycle through multiple messages if more than one piece of mail is available. Highlight the *Message* button and use the \blacktriangle and \blacktriangledown keys to step through the messages.

Page

The *Page* button will allow you to cycle through the pages of a multipage message. Highlight the *Page* button and use the \triangle and ∇ keys to step through the pages.

Erase

The *Erase* button will remove a piece of mail from your mailbox. Please be aware that once a piece of mail has been erased, it cannot be retrieved. Messages will self-erase if they become outdated or if space is needed to hold newer incoming messages.

Purchases

The **PURCHASE** screen displays recently viewed and advance purchase pay per view events. You can choose between Purchase History and Upcoming Purchases by selecting the *History* button or *Upcoming* button located in the Places to Go area of the **PURCHASES** screen.

For each purchase, the event channel, title, start date and time, and cost is listed. If there are more events than can fit on the screen, use the \blacktriangledown key or advance a page at a time using $\P \bigcirc$ to view them.

Highlighting the *Purchases* button on the **MAIN MENU** screen and pressing the **SELECT** key on the remote control will display the **PURCHASES** screen.

On the upper right is displayed the current Day, Date, and Time.

On the left are the buttons for Done, Video, and History, as explained below.

Done

Highlighting the *Done* button on the **PURCHASES** screen and pressing the selector key on the remote control causes an exit from the **PURCHASES** screen and a return to the **MAIN MENU** screen.

Video

Highlighting the *Video* button on the **PURCHASES** screen and pressing the series key on the remote control will return you to the last program you were viewing.

History

Highlighting the *History* button on the **PURCHASES** screen and pressing the series key on the remote control causes the button to change to Upcoming, and a banner at the bottom right of the screen displays a partial history of Pay Per View (PPV) purchases (made with your remote control). Upcoming Purchases are explained below. Highlighting the *Upcoming* button on the screen and pressing the series key on the remote control causes the button to change back to *History*, and a banner at the bottom right of the screen displays a list of future PPV programs that you order with your remote control. Purchase History is explained on page 7-16.

Upcoming Purchases

The *Upcoming Purchases* screen displays PPV events you have purchased but not yet viewed or purchased but never viewed. Events that were ordered by calling DIRECTV will not appear on this list.

You will see the event channel, title, start date and time, and cost for each purchase. There may be more events than can fit on the screen. You can access these by using the ▼ key or 🖁 key.

If you would like to cancel an event, highlight that event and press example. A pop-up panel will be displayed where you can cancel your purchase. Be aware that cancellation of some events may not be possible.

Buy

The *Buy* feature is used for PPV programming. The price of the event is displayed on the right side of the screen under the program title. To confirm your purchase, highlight the *Buy* button on the screen and press the key on the remote control. If you are not authorized to make the purchase directly from the HD receiver, you will need to contact DIRECTV for assistance.

Note: An order assistance fee applies to all Pay Per View phone-in orders.

Buy Options

Activating the *Buy* Button will display a pop-up menu screen with three purchase options and prices for: *View, Tape,* and *Don't Purchase*.

The *View* price indicates the cost to view the program only. A purchase of this type excludes the possibility of taping the program for later viewing.

The *Tape* price indicates the cost to record the event for later viewing. You can also view the event as it is being shown and recorded.

After choosing either *View* or *Tape*, confirm or cancel the purchase.

If neither purchase option is of interest, highlight the *Don't Purchase* button and press the key on the remote control.

Cancel Purchase

Some events may allow cancellation after they have been purchased, depending upon the event type and whether the event has been viewed. Events that have been purchased but not yet viewed can usually be cancelled. If the *Cancel Purchase* button is displayed, you are allowed to cancel the purchase. If the button is not displayed, then it is likely that a portion of the event has been viewed and the purchase may not be cancelled.

Purchase History

The *Purchase History* displays a list of PPV events that will be or have been charged to you. You will not see events you purchased but later canceled or events you purchased but which the HD receiver never tuned to. Events that were ordered by directly calling DIRECTV will also not appear on this list. You cannot remove events from this list. Reported events will disappear from this list as the HD receiver needs space to log more recent purchases.

You will see the event channel, title, start date and time, and cost for each purchase. There may be more events than can fit on the screen. You can access these by using the ▼ key or 🖁 key.

If you need to discuss an event with DIRECTV, highlight the questioned event and press Additional information will be displayed.

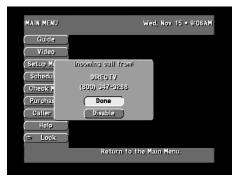
Caller ID

If you have Caller ID (Identification) service from your telephone service provider, an incoming telephone call will display an **Incoming call** from pop-up screen containing the Name and Telephone Number of the caller.

Highlighting the *OK* button on the pop-up screen and pressing the key on the remote control will continue to display this pop-up screen whenever an incoming telephone call arrives. Highlighting the *Disable* button on the pop-up screen and pressing the key on the remote control will prevent the display of the **Incoming call** from pop-up screen whenever an incoming telephone call arrives. Incoming telephone call information will still be retained, however, and displayed on the **Caller ID List** screen.



Caller ID Over video



Caller ID Over menu

Call History

Highlighting the *Caller ID* button on the **MAIN MENU** screen and pressing the step key on the remote control displays the **Caller ID** List screen.

On the left are the buttons for Done, Video, and Disable, as explained below.

Done

Highlighting the *Done* button on the screen and pressing the key on the remote control causes an exit from the **Caller ID List** screen and a return to the **MAIN MENU** screen.

Video

Highlighting the *Video* button on the screen and pressing the key on the remote control will return you to the last program you were viewing.

Disable

Highlighting the *Disable* button on the screen and pressing the key on the remote control will prevent the display of the **Incoming call** from pop-up screen whenever an incoming telephone call arrives.

Call History

On the right is displayed the Call History, which displays two lines of information for each incoming caller: Today or a date, the Time of the most recent telephone call from that caller, the Number of Telephone Calls from that Caller since the screen was last displayed, and the Telephone Number of the Caller. These lines of information are displayed with the latest telephone call shown first.

Help

The *Help* button takes you to the **ASSISTANCE** screen. It should be your first stop when you need help or have a question. Think of this feature as a quick reference manual.

Lock/Unlock

When you first receive your satellite system, it will be unlocked (that is, no limits or restrictions are in effect). To enforce the limits (spending, ratings, and "Family" favorite list), you must lock the system.

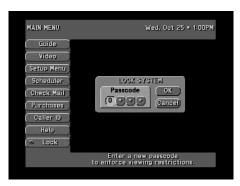
When the button on the **MAIN MENU** reads *Lock*, no lock symbol appears at the top of the menu screen, indicating that the system is unlocked.

NOTE: Once the HD receiver is locked, only channels selected on the Family list will be accessible. If the Family list does not have channels selected on it, no channels can be viewed without first unlocking the HD receiver. To avoid this inconvenience, verify the contents of the Family list before locking the HD receiver. For additional information, refer to "Channel Lists" earlier in this chapter.

Locking Procedure

When the *Lock* button is selected, the **LOCK SYSTEM** pop-up screen is displayed. Use the \blacktriangle and \blacktriangledown keys or the remote control number keys to enter a four-digit passcode of your choosing. If you enter the code using the number keys, you will not see the numbers appear on the screen. After entering a four-digit passcode, highlight and select OK to proceed. Otherwise, choose *Cancel* to cancel the locking process.

If you continue, you will be asked to confirm the code by entering it again in the same fashion as before. Once again, highlight and select *OK* to proceed. Otherwise, choose *Cancel*.



The LOCK pop-up panel

Once *OK* has been selected, the HD receiver is locked. You will need your passcode whenever you wish to unlock or override the lock. The on-screen button used to lock your system is now used to unlock your receiver. A lock symbol appears at the top of every menu screen to remind you that the HD receiver is locked.

Unlocking Procedure

To remove the lock and its restrictions, highlight the *Unlock* button and press the **SELCO** key.

When the UNLOCK SYSTEM pop-up screen appears, you can use the ▲ and ▼ keys or the remote control number keys to enter the four-digit passcode that you used to lock the HD receiver earlier. If you enter the passcode using the number keys, you will not see the numbers appear on the screen.

After entering the passcode, highlight OK and press the key on the remote control.

Note: Once the HD receiver has been unlocked, all limits and restrictions are removed!

Otherwise, choose *Cancel* to keep the lock in effect.



The UNLOCK pop-up screen

If you forget your four-digit passcode, you must call DIRECTV for assistance.

Note: When the HD receiver is used without DIRECTV® services, the password can be cleared from the Service Test Screen. To access the Service Test Screen, press the A keys on the front panel simultaneously and then release. The smart card must not be inserted in the HD receiver.

Temporarily Overriding the Lock

There are times you may wish to temporarily remove the restrictions imposed by locking. You can do this without unlocking the HD receiver. You will be prompted by an on-screen message when you have this option to override the lock. When you press the OVERRIDE LOCK pop-up will be displayed. It looks and navigates just like the UNLOCK SYSTEM pop-up panel.



The OVERRIDE LOCK pop-up

Note: Once the correct four-digit passcode is entered, the HD receiver will remain unlocked until you turn the HD receiver off. The next time you turn the HD receiver on, all locks and limits will be enforced again.



Programming Your Remote Control

You can use both the same room IR remote control and the RF remote control that came with your HD receiver to control other components in your entertainment system as long as they are in the same room as the remote control.

Programming the Remote Control

There are two ways to program your remote control to match your equipment: code scan and code entry. Code scan can take some time, but it avoids having to refer to this manual to program your remote control. Code entry saves some time but you will need to look up the codes assigned to the devices.

Programming Mode

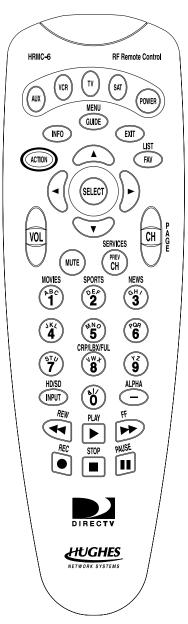
Keep your remote control aimed at the device you want to control during this process. The remote control will send out the "power" command for the device being programmed.

While holding down the device key you are programming ("TV" in this instance), press the "Mute" key for one full second. Then release the keys. The device key should light and stay lit. If it doesn't, repeat the process. If it does, the remote control is now in programming mode.

Then choose either the code scan or code entry method, as described below.

Code Scan

Once you are in programming mode, repeatedly press the A key to step through the codes, sending out the power command. This could take some time since there could be many codes for each type of device. When your device shuts off, you have found the code. If you inadvertently go past a code that responded, or realized that you may not have been aiming the remote at the device, you can use the A key to step backward through the codes. Press the POWED key to verify that you haven't missed the code. In order to lock in



The RF remote control

the code, press the device key again. The remote will remember the code until you reprogram it.

Code Entry

Look for your device type and brand in the following charts. You will find one or more codes that should operate your device. If there is more than one code, try each of them to find the one that controls your device.

Once you are in the code-entry mode, enter the three-digit code for the product you would like to control. The codes are found on the charts on this page and the next pages. Press the device key being programmed to lock in the code. The remote control will remember the code until you reprogram it.

Test whether the entered code matches your device by pressing the **POWED** key. If the device responds, you're all set. Otherwise, repeat the process using the next code for your brand or try the code scan method described under "Code Scan" on the previous page.

TELEVISION	CODE NUMBERS
Admiral	072 081 160 161
A Mark	112 143
Akai	070 146
Amstrad	052
Anam	043 054 056 080 112
	131
AOC	070 004 058 112
Audiovox	076 120
Blaupunkt	088
Bruette	572
Candle	070 002 003 004
Capehart	058
Cetronic	043
Citizen	070 002 003 004 043
	101 103 143
Classic	043
Concerto	004
Contec	043 050 051
Coronado	143
Craig	043 054 191
Crown	043 143
Curtis	070 101 143 004
Mathes	
CXC	043
Daewoo	076 103 004 016 043
	114 120 127 143 128
	136 192 044
Daytron	004 143
Dynasty	043
Dynatech	062
Electrohome	024 076 120 143
Emerson	004 005 028 043 047
	048 050 051 076 120
	143 151 153 154 155
	070 096 191
Fisher	007 057
Funal	028 043
Futuretech	043
GE	160 165 161 070 008
	009 034 056 073 074
	130 155 167 004 145

TELEVISION	CODE NUMBERS
Goldstar	004 106 110 112 119
	127 143 193
Hall Mark	004
Hitachi	011 004 009 010 012
	023 075 143 007 072
Infinity	164
JBL	164
JCPenny	070 004 008 009 030
	065 101 160 024 143
	156
Jensen	013
JVC	038 001 083 034
KEC	043
Kenwood	070 001
Kloss	002 059
KMC	143
KTV	043 143 154 070
Kuehn	722
Lodgenet	072
Logik	072
Lauxman	004
LXI	007 015 052 081 160
Magnavox	164 059 070 003 004
	060 061 063 064 022
	094 127 160
Marantz	070 164
Matsui	164
Memorex	004 007 072
Metz	088
MGA	024 070 004 024 028
	042
Minerva	088
Mitsubishi	024 004 040 042 028
	146
MTC	070 004 062 101
NAD	015 025
NEC	070 040 016 056 024
	130 134 019 004
Nikei	043
Onking	043
Onwa	043

TELEVISION	CODE NUMBERS
Optonica	019 081
Panasonic	034 080 056 164
Philco	164 070 003 059 060
	064 004 056 063 024
Philips	164 093 038 005 059
l mpo	127 070 003 004
Pioneer	025 070 004 018 023
i ioneei	190
Portland	004 143 065
Proscan	160 161 167 145 065
Proton	004 058 131 143 171
1 101011	173
Quasar	034 056 080 164
Radio Shack	004 019 043 127 143
RCA	160 161 156 165 065
11071	070 004 023 024 056
	074 152 167 145
Realistic	007 019 043 047
Runco	072 130
Sampo	070 004 058
Samsung	101 004 050 089 105
Cambang	160 127 143 133
Sanyo	007 020 053 057 082
Scott	004 028 043 048 143
Sears	015 030 028 094 004
000.0	007 057 082 143 160
	167
Sharp	081 004 014 019 022
	028 143 029
Siemens	088
Signature	072
Sony	001 085 126 166 079
Soundesign	028 003 004 043
Spectricon	112
SSS	004 043
Supre Macy	002
Sylvania	070 003 059 060 063
	064 127 160 164 044
Sylvester	917
Symphonics	194 052
Tandy	081

TELEVISION	CODE NUMBERS
Tatung	056 062
Technics	034 080
Techwood	004
Teknika	002 003 004 024 028
	043 072 101 143
Telerent	072
Tera	173
Tmk	004
Toshiba	015 030 007 040 062
	101
Universal	008 009
Video	146
Concepts	
Vidtech	004
Wards	004 019 064 008 009
	028 060 061 063 072
	074 143 164 165
Westing	076 120
House	
Yamaha	070 004
York	004
Yupiteru	043
Zenith	072 073 095 103
Zonda	112

VCR	CODE NUMBER
Aiwa	034
Akai	016 043 046 124 125
	142 146
Ampro	072
Anam	031
Audio	012 023 039 043
Dynamics	
Brooksonic	035 037 044 129 152
Canon	028 031
Capehart	108
Craig	003 040 135
Curtis	031 041 156
Mathes	
Deawoo	117 119 005 116 007
	010 065 108 110 112
Daytron	108
Dimensia	156
DBX	012 023 039 043
Dynatech	034 053
Electrohome	059
Emerson	006 029 035 025 027
	034 036 037 046 101
	129 131 138 017 031
	044 152 157 153
Fisher	003 008 009 010
Funai	034
GE	031 072 144 147 063
	151 107 109 156 126
Go Video	040 132 136
Goldstar	101 123 012 013 114

VCR	CODE NUMBER
Harman	012 045
Kardon	
Hitachi	004 026 034 063 137
	150 156
Instantreplay	031
JCL	031
JCPenny	012 013 040 101 156
	066
Jensen	043
JVC	048 050 043 130 060
17	012 031 150 055 158
Kenwood	014 034 047 048 023
Lloyd LXI	034 003 009 017
Magin	040
Magnavox	067 031 034 041 068
Iviagriavox	154 160 064
Marantz	067 069 031 067 012
Marana	023
Marta	101
Matsui	027 030
MEI	031
Memorex	102 101 003 010 014
	031 034 053 072 139
	134
MGA	045 046 059
Minolta	013 156
Mitsubishi	059 061 046 051 142
	013 045 162
MTC	034 040
Multitech	024 034
NEC	012 023 043 048 039
Nordmende	043 053 054
Optonica Panasonic	070 133 031 066 161
Pentax	013 031 063 156
Philco	031 034 067
Philips	031 067 034 101 054
	071
Pilot	101
Pioneer	021 013 048
Portland	108
Quartz	002 014
Quasar	070 133 161 031 066
Radio Shack	123
RCA	107 109 144 147 151
	013 041 034 040 156
	031 140
Realistic	003 008 010 014 031
5.	034 040 053 054 101
Rico	058 078
Salora	014
Samsung	102 040 032 104 107
	109 112 113 115 120
Sansui	122 125 159 043 048 135 022
Janoul	U+3 U40 133 UZZ

Comico	
Sanyo	003 010 102 007 014
,	134
Scott	017 037 044 129 131
	112 159
Sears	003 008 009 010 013
	014 017 081 101
Sharp	031 054 053
Shintom	024
Signature	034
Sony	056 057 058 003 052
	149 031 155
Soundesign	034
STS	013
Sylvania	031 059 034 067
Symphonic	034
Tandy	010 034
Tatung	039 043 023
Teac	034 039 043 023
Technics	031 070
Teknika	031 019 034 101
TMK	006
Toshiba	112 008 131 047 059
	082 013 042
Totevision	040 101
Unitech	040
Vector	012
Research	
Video	012 046 034 141
Concepts	
Videosonic	040
Wards	003 013 024 031 034
	040 053 054 017 131
Yamaha	012 043 034 039
Zenith	072 080 056 048 034
	101 058

AUX-AUDIO	CODE NUMBER
Adcom	146 149 227 244
AMC	083 084
Arcam	100
Audio File	093 098
Audio	221
Technica	
Aiwa	111 114 117 156 170
	199 203 219 231 241
	254
Akai	181 233
Anam	180
Bose	064 137 219
B & K	150 152
Carver	013 098 107 126
	129 160 163 220
	245 249
Clarion	151 169
Denon	101 133 191 202 208
	246 247

ALLY ALIDIO	CODE NUMBER
	CODE NUMBER
3	078 153
Audio	
Fisher	107 129 157 163 176
Fosgate	228 248
Audionics	
GE	216 123
Harman	073 195 248 249
Kardon	
Haitai	119
Hitachi	088
JCPenny	109 154 178
Jensen	099
Jerrold	141
JVC	112 198 252
Kenwood	096 104 119 125 148
	151 163 171 173 242
Krell	223
Lexicon	215 250
Luxman	066 120 205 229
LXI	123 177
Magnavox	126 162 185 186 224
	228
Marantz	074 105 126 128 139
	155 162 186 232
McIntosh	251
Mondial	069 225
MCS	178
Mitsubishi	253
Meridian	013 067
NAD	128
Nakamichi	072 212 234 235
Niles	236
Onkyo	094 115 116 209 211
	255
Optimus	121 125 140 181
Panasonic	131 144 187 200
Parasound	085 086 090
Philips	136 186 126 197
Pioneer	093 132 138 210 165
	189 195 201 081 230
Quasar	131 187
RCA	109 213 166
Realistic	103 122 123 124 172
	174 177 179 180 194
Rotel	204 218 239
Sansui	196 214 126 139 075
	197
Sanyo	157 129
Samsung	068
Scott	180 190
Sharp	096 125 151 161 169
	182 193
Sherwood	089 127
Sony	097 117 147 183 200
	253 237 238 188 192
Soundstream	197
_	

CODE NUMBER
141
124
102 159 180 062
131 184 187 200 202
208 165
175
163
092 120 166 240 125
169 216
222 061

AUX-LDP	CODE NUMBER
California	047
Audio	
Denon	043 044
Fisher	047
Kenwood	060
Magnavox	048 057
Mitsubishi	057
NAD	057
Optimus	049
Panasonic	047 051 054
Philips	048
Pioneer	055 057
Quasar	047
Radio Shack	056
RCA	046
Realistic	049
Runco	058
Sanyo	052
Sharp	060
Sony	050 053
Technics	047 051 054
Toshiba	060
Yamaha	045 059

AUX-DVD	CODE NUMBER
Denon	030
GE	035 036
GLG	041
JVC	031
Magnavox	038 042
Marantz	042
Mitsubishi	032
Onkyo	038
Panasonic	033
Philips	038 042
Pioneer	034
Proscan	035 036
RCA	035 036
Samsung	029 040
Sony	037
Toshiba	038
Yamaha	039
Zenith	028 041

AUX-CATV	CODE NUMBER
Hamlin	015 017 022
Jerrold/G.I.	010 021 025
Oak	008 016 023
Pioneer	007 026 027
Scientific/	002 006 013
Atlanta	
Tocom	003
Zenith	004

Using the Remote Control

Once your device codes are entered, you are ready to start using your universal remote control. The device keys allow you to switch from one device to another. Some keys behave in a special way—they control one device while you are actually in another device mode. For instance, while in SAT (satellite) mode, pressing Volume +/- controls your TV's volume—not the HD receiver's volume. This is because the remote control knows that there is no volume control on the HD receiver.

Advanced feature keys (i.e., are not supported for devices other than your HD receiver. For other devices, only the primary keys (a , and e) will function.

For Sony-brand devices, use the SELECT key as the "Enter" key.

For RCA-brand devices, the device key ("TV" or "VCR") may function as the "power on" key and power the "power off" key. For audio receivers and amps, you may use POWER, VOLUME, and MUTE.

Changing the Remote Control Address to Operate Other HD Receivers

Your remote control can be reprogrammed to operate different HD receivers and satellite receivers. This may be necessary in situations where multiple HD receivers are located in the same general area and can pick up signals intended for one specific receiver.

To switch the remote control, simply press and hold the sale key while entering the receiver ID. The receiver ID can be 001 (for Unit 1) through 008 (for Unit 8). Do not forget the two zeros when entering the receiver ID code number. Remember to access the **ADVANCED**PREFERENCES screen using the keys on the front of the HD receiver to pair it with the remote, refer to Chapter 7, "Advanced Preferences," for this procedure.

The other way to program your remote control to match your HD receiver is to scan for the correct code.

- 1) Keep your remote control aimed at the device you want to control during this process. The remote control will send out the "power" command for the HD receiver.
- 2) While holding down the SAT key, press the "Mute" key for one full second. Then release the keys. The SAT key should light and stay lit (indicating programming mode). If it doesn't, repeat the process.
- 4) Press the **POWED** key to verify that you haven't missed the code. In order to lock in the code, press the SAT key again.

The remote will remember the code until you reprogram it.

Identifying Codes That Have Been Stored

You can identify the codes you stored in your remote control's device keys. These codes can be used when programming additional remote controls.

- 1) Press the device key and the "Mute" key simultaneously.
- 2) Press the key and count the number of times the red light in the device key blinks. Each digit of the three-digit code is separated by a two-second period the light is off. For

example, if the code number is 021, the light will blink 10 times (for "0"), pause two seconds, blink two times (for "2"), pause two seconds, and then blink one time (for "1").

Controlling Other Components Using the AUX Button

Some additional features are available when the remote control is in the AUX mode.

Volume Control in AUX Mode

When the remote control is in TV, VCR, or SAT mode, the volume keys control the TV's volume. When the remote control is in AUX mode, the volume keys control the auxiliary device's volume. If your auxiliary device does not have audio output, you can program the volume keysto control the TV's volume when your remote control is in AUX mode by performing the following steps:

- 1) Press the "AUX" key and the "Mute" key simultaneously.
- 2) Press the "Volume Up" key.

Once you perform these steps, whenever your remote control is in AUX mode the volume keys will control the television volume. In the event that you reprogram the "AUX" key to control a different component at some future time, you can restore the remote control's capability to control the auxiliary component's volume by simply repeating these two steps.

Assigning a Device to a Different Device Key

You can assign a device to a device key that has a different label. For example, you can assign a second TV to the "AUX" key:

- 1) While holding down the "AUX" key, press the "Mute" key. Then release both keys.
- 2) Press the device key associated with the type of device you wish to assign to the AUX key. In this example, you would press the TV key.
- 3) Enter the correct code. (To determine the code, use either the code scan or code entry method described earlier.)
- 4) Press the "AUX" key. The new device code is now stored in the "AUX" key, and the "AUX" key now controls the second TV.

Questions and Answers



Questions? Did we forget to tell you something? Many people, over time, have questions about their satellite system. We have compiled the most frequently asked questions and their answers in this appendix. We hope they help!

- Q I had a satellite signal but now I am getting a message "Searching for satellite signal. To access related utilities, press SELECO." What happened?
- A Rain clouds and snow can affect the satellite signal reception. This loss of signal is temporary. Also check for new growth on trees and bushes that could be blocking the signal. One other possibility is that the wind or someone has moved the satellite dish antenna.
- **Q** Why can't I control my TV?
- A Before you can control your TV, VCR, or any other device, besides your HD receiver, you must program your remote control to match your different devices. See the chapter, "Programming Your Remote Control" in this manual for specific instructions. If you have already successfully programmed your remote control, try pressing the appropriate device key to put your remote in the proper mode. Then try controlling that device. Also, make sure that the batteries in the remote control are good.
- **Q** Some channels look good, while others freeze or indicate that no signal is available. What's wrong?
- A The most common causes for this behavior relate to an improperly grounded satellite cable. Check the cable between your HD receiver and the satellite dish antenna. Confirm that RG-6 (not RG-59) cable is used and does not exceed 100 feet in length. Longer cable runs require amplification. This special amplifier is available from your dealer.
- **Q** How can I watch one satellite program while recording another?
- **A** With only one HD receiver, unfortunately, you can't. Each receiver can only decode one channel at a time.
- **Q** I'm getting a message to call some extension. Why?
- A There are many different reasons for this. If you want to watch the channel that is displaying the message, call DIRECTV at 1-800-DIRECTV (1-800-347-3288).

- **Q** Why don't I have an on-screen offer to purchase pay per view programs?
- A There are four possibilities: 1) Your HD receiver must be connected to a phone line; 2) Your HD receiver is connected to a phone line but DIRECTV does not realize that it is; 3) DIRECTV has disabled your ability to make on-screen purchases; or 4) the pay per view program is not available for purchase. Call DIRECTV at 1-800-DIRECTV (1-800-347-3288), for assistance.
- **Q** Can I receive my local TV programs through my HD receiver?
- **A** There are three ways to receive local programming:
 - 1) This receiver is able to receive local NTSC and ATSC channel from an antenna connected directly to the **IN FROM ANT**.
 - 2) If you connect cable and a satellite dish antenna, you can receive the local "lifeline" or "broadcast basic" service.
 - 3) With a satellite dish antenna and a subscription you may be able to receive some of your local channels directly from the satellite. The availability of local channels delivered directly from satellite will depend on your local area, the type of dish antenna and the subscription package you order from DIRECTV.
- **Q** If I have questions about my satellite system or need to have it serviced, whom should I call?
- A For issues regarding your equipment, contact Hughes Network Systems Customer Care Center directly at 1-800-274-8995. If you would like, call your dealer first. They are most familiar with your installation and needs. Also, they are likely to be local to you.
 - If you need assistance with your subscription, such as adding channels, contact DIRECTV at 1-800-DIRECTV (1-800-347-3288).
- **Q** I thought I had set an event to record on my VCR but, when I played the tape back, nothing was there. What could be wrong?
- A There are several possible reasons for this. First, check that the HD receiver is properly programmed to operated your VCR and that the IR emitter is properly attached to the front of the VCR. Make sure you have left the VCR turned on and set to the input that matches the output from your HD receiver (RF channel 3 or 4 or A/V Audio left and right with video or S-video). Also make sure your HD receiver is in SD output mode. Make sure you select PreSelectTM of the program was for recording and not viewing. Make sure the program is authorized for recording and not listed as "can't tape."
- **Q** I picked up my telephone and it was making a hissing and squealing sound. Why?
- A Your HD receiver was reporting any pay per view activity that may have occurred. This happens very rarely and lasts for only a minute or so.
- **Q** What if my question isn't listed here?
- A Call your dealer or the Hughes Network Systems Customer Care Center at 1-800-274-8995. We will do our very best to answer your questions.

LIMITED WARRANTY

Hughes Network Systems (HNS) provides the following limited warranty on this equipment

This limited warranty is in lieu of all other warranties, whether express, implied, or statutory, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. HNS shall not be liable for damages in excess of the purchase price of the product less reasonable amount for use and wear, or for any incidental, special, punitive, or consequential damages of any nature whatsoever, or for any delays, loss of use, time, profits, revenue or savings, any commercial loss, inconvenience, damage to buyer's or to other person's property, arising from the use or inability to use the product, or otherwise for any failure to perform. HNS neither assumes nor authorizes any customer care center or any other person or entity to assume any other obligation or liability beyond that which is provided for in this limited warranty. No oral or written information or advice given by HNS, its dealers, distributors, agents or employees, shall create a warranty or in any way increase the scope of this warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations of implied warranties, so the above limitations or exclusions may not apply to Purchaser.

This Limited Warranty gives specific legal rights to Purchaser, and Purchaser also may have other rights which may vary from state to state.

PROVISIONS

Your Hughes manufactured DIRECTV PLUS™ Digital Satellite Receiver, Satellite Dish Antenna, and Remote Control are warranted against defects in materials, workmanship for parts and labor:

- The digital satellite receiver is warranted for two (2) years from date of purchase.
- The satellite dish antenna (including the LNB) is warranted for one (1) years from date of purchase.
- The remote control is warranted for ninety (90) days from date of purchase.

This limited warranty does not cover:

- a unit that has been modified
- damage from misuse, negligence, or accident
- · any installation, or damages caused by installation
- shipments to HNS that are damaged in transit
- · removal and reinstallation of equipment for repair
- · loss of programming
- damage due to lightning (for example, power surges, nearby strikes)
- acts of God
- · cost of shipping to HNS
- batteries or cables after installation

This limited warranty is not transferable and is valid only in the United States

SERVICE

If you have any questions or encounter any problems, you may contact your authorized HNS dealer or call our Customer Care Center, at 1-800-274-8995. To ensure prompt and efficient service, please have your model and serial numbers handy. Space to note these numbers is provided inside the front cover of this manual. In the event of repair or replacement, you will need these numbers, along with your bill of sale.

RETURN PROCEDURES

In the event that your equipment must be repaired or replaced, you can:

• contact your authorized HNS dealer or call our Customer Care Center to find the authorized service center nearest you.

OR

• choose the "replace after receipt" option, whereby you must ship HNS your defective equipment and, once your unit is received, a new or refurbished unit (at the sole discretion of HNS) will be shipped to you.

OR

• choose the "advance replacement" option, whereby a new or refurbished unit (at the sole discretion of HNS) will be shipped to you after you have provided an accepted credit card number for collateral purposes. Once you receive the replacement part from HNS, return your defective equipment within the specified time period to avoid being charged for the advanced part. If the warranty on the equipment has expired, the Customer Care technician will provide you with an estimate of the cost to replace the unit when the RMA is assigned.

PACKING INSTRUCTIONS FOR EQUIPMENT TO BE RETURNED

- Call the Customer Care Center. The Customer Care technician will give you an RMA (Return Merchandise Authorization) and a mailing address for returning your unit.
- 2. If you are returning the digital satellite receiver, please keep your access card and return only the digital satellite receiver.
- 3. Pack the unit in the original box and packing material, if possible, or in other packaging that provides adequate protection for shipping. Include your name and address, the model number, the serial number, and a copy of the bill of sale.
- 4. Write: "Attention: RMA #" (the number given to you by the Customer Care technician) on the return shipping label.
- 5. Insure the shipment for the full replacement value.

If the warranty on the equipment has expired, the Customer Care technician will provide you with an estimate of the cost to replace the unit when the RMA is assigned.

Part # 1029563-0001 (Revision: A)

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